



CENTRAL COLLEGE

COURSE CATALOG

2023-24

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2023-24

Notice

The Central College Catalog contains the most accurate information available at the time of publication. Statements contained herein or on the online version are not contractual obligations, and verbal or other representations that are inconsistent with or not contained within the catalog's offerings or policies are not binding. Central College reserves the right to change, without specific notice, offerings, policies, procedures, qualifications, fees and other conditions. All such changes will be effective at times deemed appropriate by the proper institutional authorities and may apply to enrolled as well as prospective students.

For the most current information on Central College, contact:

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TABLE OF CONTENTS

Academic Calendar	4
Central...Briefly	5
Central History	7
Mission of Central College	7
Student Records Notice	7
Admission	11
College Costs	17
Financial Aid	21
Academic Philosophy	26
Graduation Requirements	28
Academic Policies	30
Academic Programs	50
Academic Major Requirements	54
Course Descriptions	143
Academic Resources	201
Pre-Professional Programs	202
Honors	205
Special Programs	206
International Education at Central College	207
Awards	208
Directories	218
Index	224

2023-2024 Academic Calendar

Dates are subject to change. For current calendar information go to www.central.edu

May 2023

- 30 Summer 5 and 10-Week Classes Begin
- 31 Last Day to Drop or Add a 5- week Class

June 2023

- 7 Last Day to Drop or Add a 10-Week Class
- 14 New Student Orientation Session #1
- 15 New Student Orientation Session #2
- 16 New Student Orientation Session #3
- 21 Last Day to Withdraw from a 5-week Class
- 27 Upward Bound & Bridge Classes End
- 30 Summer 5- Week Classes end

July

- 4 Independence Day
- 10 New Student Orientation Session #4
- 11 New Student Orientation Session #5
- 14 Last Day to Withdraw from a 10-Week Class

August

- 4 Summer 10-Week Classes End
- 8 Summer Semester Grades Due (Noon)
- 14-15 International Students Arrive
- 14-16 New Faculty Workshops
- 16-18 New International Student Orientation
- 16 Chairs Workshop
- 17-18 All Faculty Workshops
- 19 New Students Arrive
- 19 Welcome Week Begins
- 21 Returning Students Arrive
- 22 Enrollment Confirmation Day
- 23 Fall Semester Classes Begin (Wed.)
(Add/Drop Period: Aug. 23 – Sept. 1)

September

- 1 Last Day to Drop or Add a Course
- 4 Labor Day (*no classes/college closed*)
- 29- Oct. 1 Homecoming

October

- 3 Service Day
- 16-17 Fall Break (Mon.- Tues.)
- 18 Classes Resume
- 18 Spring 2024 Advising Begins
- 20 Midterm
- 20-21 Board of Trustees Meeting
- 24 Midterm Grade Due (Noon)
- 30 Spring 2024 Registration Begins

November

- 4 Central College Scholar Day
- 10 Last Day to Withdraw from a Course
- 11 Central College Scholar Day
- 22-24 Thanksgiving Break (Wed. – Fri.)
- 27 Classes Resume
- 27 Registration for Guest Students Begins

December

- 8 Last Day of Fall Semester Classes (Fri.)
- 11 College-Wide Study Day
- 12-14 Final Exams
- 15 Residence Halls Closed
- 19 Fall Semester Final Grades Due (Noon)

January 2024

- 12 Faculty Workshop
- 13 New Student Welcome Day/Orientation
- 14 Returning Students Arrive
- 15 Spring Semester Classes Begin
(Add/Drop Period: Jan. 15-26)
- 15 Martin Luther King Day (alternate day of learning)
- 26 Last Day to Drop or Add a Course
- 27 Central College Scholar Day

February

- 3 Central College Scholar Day

March

- 8 Midterm
- 11-15 Spring Break (Mon.-Fri.)
- 12 Midterm Grades Due (Noon)
- 18 Classes Resume
- 18 Fall 2024 Advising Begins
- 29-April 1 Easter Break (Fri - Mon.)

April

- 2 Classes Resume (Tues.)
- 2 Fall 2024 Registration Begins
- 5 Last Day to Withdraw from a Course
- 19-20 Board of Trustees Meeting
- 23 Undergraduate Research Symposium (alternate day of learning) (Tues.)

May

- 2-4 Tulip Time
- 3 Last day of Spring Semester Courses
- 3 Last day to add Summer 2024 independent coursework
- 6 College-Wide Study Day
- 7-9 Final Exams
- 10 Senior Grades Due (Noon)
- 10 Residence Halls Closed
- 11 Baccalaureate/Commencement
- 14 Final Grades Due (Noon)
- 28 Summer 5 and 10-Week Classes Begin
- 31 Last Day to Drop or Add a 5- Week Class

June

- 5 Last Day to Drop or Add a 10-Week Class
- 19 Last Day to Withdraw from a 5-Week Class
- 28 Summer 5- Week Classes end

July

- 10 Last Day to Withdraw from a 10-Week Class

CENTRAL . . . BRIEFLY

- Located in Pella, Iowa - 40 minutes southeast of Des Moines
- Founded in 1853
- Campus includes nearly 50 major buildings on 200 acres
 - The newly renovated Douwstra Auditorium has been a gathering place for concerts, lectures, convocation and baccalaureate.
 - The Roe Center is a platinum LEED-rated (Leadership in Energy and Environmental Design) building and houses education, political science, psychology, and sociology programs..
 - Vermeer Science Center earned Iowa's first LEED rating, a silver medal, from the U.S. Green Building Council.
 - Maytag Student Center features a fireside lounge, fitness center, Fred's café and Central College Spirit Shoppe.
 - Howard McKee Hall, an apartment-style residence hall, earned Central's second LEED rating, a gold medal.
 - Scholte Hall is Central's largest residence hall.
 - Weller Center for Business and International Studies features many environmentally friendly elements.
 - The Central Market is Iowa's most original dining hall with a unique European marketplace design.
 - Ron Schipper Fitness Center is a state-of-the-art fitness center available to all students. It's located in the newly renovated A.N. Kuyper Athletics Complex.
 - Geisler Library holds 160,000 volumes and is home to the Global Café, which offers espresso, coffee, and snacks.
 - Kruidenier Center hosts numerous performances and theatre productions to showcase our musical theatre majors.
 - Lubbers Center for the Visual Arts includes one of only two teaching glassblowing studios in Iowa.
 - The Chapel is home to Central's Campus Ministries program, which is open to all.
- Recognized:
 - One of the Best Liberal Arts Colleges in America, Niche.com, 2023
 - One of the Best Colleges for Kinesiology and Physical Therapy in America, Best Colleges for Education in America and a Best Value College in Iowa, Niche.com, 2023
 - One of the Best Christian Colleges and Universities—Edsmart.org, 2023
 - Top 25% of Money Magazine's Best Colleges in America, Ranked by Value—Money, 2022
 - One of the Best National Liberal Arts Colleges, U.S. News and World Report, 2022
 - #1 Ranked College in Iowa for Environmental Studies, College Factual, 2022
 - One of the Best Colleges for Education and Teacher Education Grade Specific Schools, College Factual, 2022
 - Top 15% in Placement for Best Bachelor's Degree Colleges for the Money, College Factual, 2022
 - Top Performers for Social Mobility Colleges, U.S. News and World Report, 2021
 - One of Money Magazine's Best Colleges in America, Ranked by Value, Money, 2021
 - Central students have won some of the nation's most prestigious scholarships and awards for academic achievement and leadership. Olivia Svoboda '22 received a Fulbright Foreign Language Teaching Assistant grant award to teach English in Spain for the 2022-23 academic year. In 2021, Cameron Coles '22 earned the Goldwater Scholarship. In 2020, Katelyn Wang '21 and Elizabeth Sheldon '21 earned a Goldwater Scholarship and a Udall Scholarship, respectively.
 - Top 15% in the nation for Division III Women's Soccer program, collegefactual.com, 2020
 - One of only seven Iowa private colleges or universities with a chemistry program approved by the American Chemical Society.
- Accredited by
 - the Higher Learning Commission (www.hlcommission.org; 800-621-7440)
 - State of Iowa Board of Education
 - Engineering Accreditation Commission of ABET
 - National Association of Schools of Music
 - Council on Accreditation of Strength and Conditioning
 - Commission on Accreditation of Allied Health Education Programs
- Certified by the American Chemical Society

Students

- Total enrollment: 1,169
- Number of states represented in student body: 32
- Foreign countries represented in student body: 4
- Average aid (including scholarships, grants, work study and federal loans) awarded to all incoming freshman in 2021-22: \$17,231
- 6-year graduation rate: 70.28%

Faculty

- Total full-time and part-time faculty: 92
- Ph.D. degree or terminal degree: 84.7 percent
- Faculty-student ratio: 13:1
- Average class size: 16

New, first-year student admission profile (Fall 2022)

- Total applications: 1,970, total acceptances: 1,561; final enrollment: 351 (192 men; 159 women)
- Reformed Church in America students: 66
- Percent in top 10 percent of high school class: 21 percent
- ACT composite score average: 22.5
- Average HS GPA: 3.61
- Percentage entering with AP or college credit: 67 percent .

Financial aid profile, entire student body

- Receiving need-based aid: 61.39 percent
- Receiving scholarship and grant aid: 98.95 percent

Music program

Central's music department is committed to providing both majors and non-majors a variety of musical performance opportunities: A Cappella Choir, Chamber Singers, College-Community Chorus, College-Community Orchestra, Flying Pans Steel Drum Band, Pep Band, Percussion Ensemble, Symphonic Wind Ensemble, and ALMA.

Athletics program

- Central College is affiliated with the National Collegiate Athletic Association (Division III) and the American Rivers Conference for men and women. Our 21 teams include baseball, basketball, cross country, football, golf, soccer, softball, tennis, track and field, women's triathlon, volleyball, and men's and women's wrestling.
- Central athletes have captured 11 NCAA Division III championships, 37 NCAA Division III national individual titles, 187 conference team championships, 76 national top-10 team finishes, 66 CSC Academic All-America®, 24 NCAA postgraduate scholarships and 10 NCAA Division III player of the year awards.

A.N. Kuyper Athletics Complex includes:

The A.N. Kuyper Athletics Complex was recently transformed and includes:

- H.S. Kuyper Fieldhouse with indoor track, tennis and basketball court surface
- Ron Schipper Fitness Center
- Ron and Joyce Schipper Stadium
- Competition soccer field with separate men's and women's practice fields
- Ryerson Golf Practice Range, one of the only golf practice facilities on a college campus in Iowa
- 8,000-meter cross- country course on campus
- P.H. Kuyper Gymnasium
- Baseball and softball game fields

Central College History and Tradition

Founded in 1853 by a determined group of pioneer settlers, Central College has, since its inception, been committed to the ideals of liberal education. Central was originally a Baptist institution, and its founders immigrated to central Iowa to escape religious tyranny in the Netherlands.

Central College officially opened Oct. 8, 1854, with a class of 37. The campus consisted of one two-story building containing three rudimentary classrooms. This fledgling institution grew both in size and mission during its first 60 years, eventually moving to a parcel of land donated by Pella's founding father, Dominie Pieter Scholte. The college survived fires, three wars and economic depression during a period of history that saw the United States double in size.

In 1916, Central became affiliated with the Reformed Church in America. As its academic reputation grew, Central attracted many more students from outside the denomination.

Today, Central College welcomes approximately 1,120 students each year from around the world..

Central's home of [Pella, Iowa](#), is a thriving community of more than 10,000. Pella impressively appears in Oprah's 2021 [60 Charming American Towns You Haven't Heard of But Should Visit ASAP](#). The community is famous for its annual [Tulip Time Festival](#), its Dutch pastries and its fully functional 1850s-style windmill. In fact, [Pella has it all!](#) Pella is located just minutes from [Red Rock Lake](#), Iowa's largest lake, and is the corporate headquarters of several international companies, including Vermeer Corporation, Pella Corporation, Precision, Inc., and Lely North America.

Central's four-year liberal curriculum offers dozens of academic programs [in the sciences, social sciences, arts and humanities](#). In 2018, the college celebrated its first graduates from its new [engineering program](#). The college also has several professional programs and more than a dozen pre-professional tracks including dentistry, health, pharmacy, law, medicine, nursing, athletic training and more. The Dutch compete in 21 varsity sports and have earned 11 Division III national titles—more than any other Division III college in Iowa. An extensive program of art, music, theatre and cultural events are offered every semester.

Vision of Central College

Central College will be a sustainable bridge to the future through leadership, stewardship and service to the world.

Mission of Central College

Central College is a residential liberal arts college dedicated to helping students discover and develop their greatest potential. Guided by its ecumenical Christian tradition, the College community engages in vigorous, open inquiry in pursuit of academic excellence.

The college nurtures the development of the mind, while fostering spiritual and emotional maturity and physical well-being. Central integrates career preparation with the development of values essential to responsible citizenship, empowering graduates for effective service in local, national and international communities.

Family Educational Rights and Privacy Act (FERPA) of 1974

The *Family Educational Rights and Privacy Act of 1974* helps protect the privacy of student education records. The *Act* provides for the right to inspect and review education records, the right to seek to amend those records and to limit disclosure of information from the records. The intent of the legislation is to protect the rights of students and to ensure the privacy and accuracy of education records. The *Act* applies to all institutions that are the recipients of federal aid administered by the Secretary of Education.

- The right to inspect and review their education records within 45 days of the day the college receives a request for access. Students should submit written requests to the registrar's office and identify the record(s) they wish to inspect. The staff of the office will make arrangements for access and notify the student of the time and place where the records may be inspected. If the requested records are not maintained by the registrar's office, the student will be notified of the correct official to whom the request should be addressed.

- The right to request an amendment to the student's education records that the student believes are inaccurate or misleading. The student should submit the request in writing to the registrar's office and clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the college decides not to amend the record as requested by the student, the college will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing will be provided to the student when notified of the hearing.
- The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the university in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the college has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. In addition, the college may also disclose education records to another school in which a student seeks or intends to enroll. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility. State and local education authorities ("Federal and State Authorities") may allow access to your records and personally identifiable information without your consent to any third party designated by a Federal or State Authority to evaluate a federal- or state-supported education program, as well as to researchers performing certain types of studies.
- The right to file a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Ave., SW
Washington, D.C. 20202-5920

For a complete copy of Central's FERPA policy, contact the registrar's office, Central Hall (2nd Floor), 641.628.5442 or registrar@central.edu. Additional information is also available at: <http://departments.central.edu/registrar/student-privacyferpa/>.

Directory Information

At its discretion Central College may provide directory information in accordance with the provisions of the *Family Educational Rights and Privacy Act of 1974 (FERPA)*. Central College does not release lists of directory information to any person or agency making unsolicited requests. Directory information is defined as that information which would not generally be considered harmful or an invasion of privacy if disclosed. At Central College this includes a student's: name, home address (city, state/country), parent name(s), parent(s) home address (city, state/country), campus mail box, Central College electronic mail address, phone number (including cell phone), major(s)/minor(s), dates of attendance, date and title of degree, honors and awards received, participation in officially recognized activities and sports, weight and height of members of athletic teams, thesis titles/topics, photograph/image, current enrollment status, (full-time/part-time), class standing (junior, senior, etc.), anticipated graduation date, previous institutions attended.

All other information (i.e., grades, course schedule, financial aid, tuition/fees owed and disciplinary records) are considered confidential and will not be released, with certain exceptions, without the student's written permission. If you wish to have non-directory information released, you need to sign Consent to Release Educational Records form and return it to the registrar's office (2nd Floor, Central Hall) to authorize the college to do so. Students may withhold directory information by completing a Request for Non-disclosure of Directory Information form which is available in the registrar's office.

For more information contact the registrar's office, Central Hall (2nd Floor), 641.628.5442 or registrar@central.edu.

Official Transcripts

Central College official transcripts are available through the registrar's office and are either printed on security paper with the registrar's signature and an embossed seal or electronically delivered (e-Transcript) as a digitally certified PDF. Transcripts can be ordered by submitting a transcript request form online via our online vendor, Parchment. Electronic transcripts are only available through Parchment. Note the following transcript policies:

- In compliance with federal law as established by the *Family Education Rights and Privacy Act of 1974* as amended, transcripts will not be issued to third parties without the written consent of the student, as demonstrated by an original signature of the student approving the release of the transcript.
- Transcripts will not be released if the student requesting them has outstanding financial obligations at Central College, as determined by the controller's and financial aid offices.
- Paper/printed transcript requests are typically processed within 1-2 business days. Electronic transcripts are typically processed on the date received or the next business day.

Drug-free campus statement

Central College, in compliance with the Drug Free Workplace Act of 1988 and the federal Drug Free Schools and Communities Act of 1986 and its 1989 amendments, but also speaking to a strong philosophical belief, establishes the following policy which is applicable to all students and employees as well as volunteers acting in an official capacity for the college.*

- 1. To help ensure the safety and well-being of employees, volunteers, students, and the general public, the college is committed to maintaining a campus work and educational environment that is free of the illegal use of drugs and alcohol.**
 - a. The College prohibits its employees (including student workers) and volunteers from reporting to work or performing work for the college while impaired by, or under the influence of, illegal drugs, misused/abused prescription medication, or alcohol.
 - b. The illegal use, possession, dispensation, distribution, manufacture or sale of alcohol, drugs and/or drug paraphernalia by an employee/volunteer in the workplace, on campus, or while the employee/volunteer is on duty or official college business; or by a student and/or a guest on campus or during any College-sponsored on-campus and off-campus activities is prohibited. This policy includes the misuse/abuse of prescription medication.
- 2. No one may possess, use, manufacture, distribute, sell, trade and/or offer for sale, or auction alcoholic beverages on college property or at college-sponsored events except in accordance with the College's State of Iowa liquor license, the College's banquet permit/special event license procedure, or applicable college regulations.**
 - a. The on-campus use, possession, dispensation, distribution, manufacture or sale of alcohol by a student and/or a guest, regardless of age, is prohibited except as permitted by the Central College President for specific College-sponsored events/functions.
 - b. Alcoholic beverages may not, under any circumstances, be used by, possessed by, consumed by, or distributed to any person under 21 years of age on campus or during any College-sponsored on-campus and off-campus activities.
 - c. Alcohol is prohibited in any on campus or College-owned/managed residential housing unit for residents and guests.
 - d. Items used for the purpose or promotion of high-risk drinking (beer pong tables, beer bongs, etc.) are prohibited on campus.
- 3. Students and employees/volunteers of the college who violate the laws underlying this policy are subject to arrest and conviction under the applicable criminal laws of Pella, Marion County, the State of Iowa, and/or the United States.**
 - a. Federal law contains further prohibitions against the manufacture, possession with the intent to distribute, or distribution of controlled substances, including, but not limited to narcotic drugs, marijuana, depressant or stimulant substances.
 - b. Iowa law prohibits the manufacture, delivery, possession with the intent to manufacture or deliver and possession of controlled substances. Local and state laws prohibit possession of open containers of alcoholic beverages outside of a residence or licensed liquor establishment. Possession of alcoholic beverages is prohibited for persons under the age of 21. Operating a motor vehicle while intoxicated is also prohibited.

The College recognizes all these regulations in its commitment to maintaining a healthy campus and workplace. The College recognizes that chemical dependency is a major threat to wholeness of personal health. The College is therefore committed to seeing that all its students and employees understand that: (a) the use of alcohol and/or illegal drugs can interfere physically, mentally, socially and spiritually with the ability to perform important functions (i.e., work performance, increased accidents, time lost for employees; and lower grades, reduced participation in College activities for students); (b) these drugs impair physical coordination and mental alertness and may damage the immune system,

resulting in irreversible health problems and death; and (c) social behavior following use of alcohol or illegal drugs may be destructive to relationships.

Violations of the standards of conduct described in this policy may result in, among other things:

1. Disciplinary sanctions, up to and including dismissal/ termination/ suspension/ expulsion; and/or
2. A requirement to successfully complete a drug and alcohol abuse evaluation and/or rehabilitation program.

Violators of this policy can also anticipate that the College may file a formal complaint with the legal authorities resulting in the appropriate legal sanctions, including monetary fines and/or imprisonment. Although the severity of the infraction will determine the nature of the College's response, whenever possible the College will respond educationally rather than punitively to the illegal or improper use of drugs and/or alcohol by a survivor of sexual or relationship misconduct. The seriousness of sexual or relationship misconduct is a major concern and the College does not want any of the circumstances (e.g., drug or alcohol use) to inhibit the reporting of a violation of the Equal Opportunity, Harassment and Non-Discrimination Policy.

For students, the College Counseling Service provides evaluation and counseling for abuse of alcohol and drugs; see the Counseling Services webpage for information on how to schedule an appointment from [on-campus](#) or [off-campus](#). Employees are encouraged to take advantage of the [Employee Assistance Program](#); refer to the Human Resources page on my.central.edu for information about these services.

Students who have questions regarding this policy should contact the Dean of Students. Faculty should contact the Associate Dean for Curriculum and Faculty Development. Staff should contact their supervisor or the Office of Human Resources.

Definitions

1. "Illegal drugs" is defined as a substance or substances defined and regulated under the provisions of the Federal Controlled Substances Act and Iowa Statutes, and includes but is not limited to CNS depressants, CNS stimulants, THC, hallucinogens, other illegal drugs such as PCP (angel dust) and cocaine or crack.
2. "Alcohol" and "alcoholic beverages" include, but are not limited to beer, "near-beer"/low-alcohol beer, and malt beverages; wine and low-alcohol wine; distilled spirits such as whiskey, vodka, rum, gin, tequila; and liqueurs or fortified alcoholic beverages, that are consumed for non-medicinal purposes.
3. "On campus" means any building, facility, grounds or other property owned, leased or controlled by Central College.
4. "Official college/campus business" is defined as activity by an employee or volunteer that occurs in the performance of, or in the course of, assigned duties of college employment or business.
5. "College-sponsored off-campus events/functions/activities" include, but are not limited to, the following categories: (a) Academic-related (e.g., class excursions, laboratory field work, service-learning, internship); (b) professional preparation and/or development (e.g., conference, training); (c) service-related (e.g., mission trip, Central Service Day); (d) social (e.g., student organization cookout at West Market Park; residence life bowling activity); (e) official representation of Central College (e.g., music, theatre, admission, athletic competition).

* The Drug Free Workplace Act (1988) applies to employees of the College and students who are Pell Grant recipients. It requires the College to certify that a federal grantee will provide a drug-free workplace. The Drug Free Schools and Communities Act (1986) and Amendments (1989) require that as a condition of receiving funds or any other form of financial assistance under any federal program, an institution must certify that it has adopted and implemented a program to prevent the unlawful possession, use, distribution of illicit drugs and alcohol by students. While these are distinct regulations, the College is stating with this single policy its intent to comply with both.

The college's alcohol and drug policy is distributed to the campus community each year in the fall through written notification via email and/or campus mail. Residence life staff and orientation workers also lead sessions for students during the year which address college policy, individual decision making and ramifications of substance use/abuse on campus. Counseling services provides a wide variety of self-help information regarding alcohol and other drugs.

ADMISSION

Campus visit

All prospective students are invited to explore the opportunities available in and out of the classroom at Central by arranging a personal campus visit. Prospective students tour the campus with a student ambassador and visit with an admission counselor to discuss academic programming, extracurricular options, the admission process, scholarships and financial aid. Students may also request an appointment with a faculty member or sit in on a class in their chosen field of study. Additional meetings with music or theatre staff members or coaches can also be arranged.

The office of admission is open from 8 a.m.-4:30 p.m. Monday through Friday throughout the academic year and summer months. From September through May, the office is also open on Saturdays from 8 a.m.-noon. Please see the admission website at central.edu/admission for a list of special visit events throughout the year.

For more information, contact Central's campus visit coordinator at 641-628-7616 or toll-free at 877-462-3687 during regular office hours.

Application for admission for new freshmen

To apply for admission:

1. Submit a completed application with a nonrefundable \$25 application fee. This fee will be waived if: you are a child of an alumnus; you apply before January 15; you apply after a personal campus visit; and/or you apply on-line.
 - Apply on-line at central.edu/admission/apply/
 - Request one directly by writing: Admission Office, Central College, Campus Box 5100, 812 University, Pella, IA 50219 or,
 - Call 641-628-7616.
2. An unofficial transcript may be sent along with your application or have your high school mail an official transcript to the office of admission, or email to admission@central.edu for admission purposes. A final official high school transcript will be required to be mailed to the office of admission prior to the start of enrollment. In addition, any college transcript(s) for dual-enrollment coursework.
3. ACT or SAT test scores are not required for admission. Candidates may submit standardized test results for the purpose of an admission decision if they desire but it is not required. However, eligibility for some scholarships and course placements require the submission of a standardized test score. Students interested in submitting ACT or SAT test scores may send them to the office of admission if the test results are not posted on your transcript.

Note: For students enrolled in college or Advanced Placement courses, an official transcript from the college(s) attended and/or the College Board (for AP courses) should be sent to the admission office.

Admission guidelines

The college's admission committee reviews all applications for admission and especially seeks to admit students who demonstrate the desire, skills and potential to compete successfully at the college level. To be considered for admission as a degree-seeking student for fall or spring, candidates should:

1. Be a graduate of an accredited secondary school or its equivalent;
2. Rank in the upper half of their secondary school graduating classes;
3. Central does not require the ACT or SAT test scores for an admission decision. However, test scores are considered for placement in some courses and for some scholarship opportunities. Central's ACT code is #1284; our SAT code is #6087.
4. Score a 530 on the TOEFL exam, a 197 on the computerized equivalent, or a 71 on the internet-based exam (if enrolling as an international student)

While specific courses are not required for admission, the college recommends that candidates have the following:

- English - four years, including literature.
- Mathematics - two or more years, including algebra, algebra II and geometry.
- Social studies - three or more years, including American and European history.
- Sciences - two or more years of lab science.
- Foreign languages - two or more years.

Regular admission

Candidates who meet the following criteria are typically admitted to Central without restriction or condition:

1. Have an unweighted cumulative grade point average of at least 2.700 on a 4.000 scale;
2. Have successfully met the recommended college-preparatory curriculum outlined previously.
3. Rank in the top half of their secondary school graduating classes; and
4. Present no extenuating causes for special consideration.

A limited number of candidates may be admitted who do not meet the criteria for regular admission, but who demonstrate the potential and motivation to succeed at Central. Such candidates may be asked to provide the admission committee with additional information such as a seventh semester transcript, recommendation letters or personal statements. If admitted, students in this category should expect to be placed in at least one prescribed course and are strongly encouraged to utilize additional academic support services available at the college.

Admission of home-schooled students

Prospective students seeking admission as freshmen who were home-schooled must submit appropriate documentation evidencing completion of a secondary-level program of study culminating in the equivalent of a high school diploma. Specific admission requirements and documentation may vary based upon the nature of the home-school program. Please consult the office of admission for guidance.

Equivalency diploma consideration

A prospective student seeking admission as a degree candidate who is 18 years old and holds an equivalency diploma issued by his/her state department of education will be given full consideration for admission.

To apply, candidates must submit an official transcript of all attempted course work in high school and a transcript of General Education Development (GED) assessment.

Appeals

All decisions of the admission committee may be appealed by the candidates within 30 days of notification. To appeal a decision, a candidate must submit a detailed statement in writing that addresses the following issues:

1. What is your motivation for seeking admission specifically to Central College?
2. What extenuating circumstances or conditions should the members of the admission committee consider in re-evaluating your application?
3. How do you expect your academic performance to differ from secondary school to college? What assurance can you give that the change will, indeed, take place?
4. Which of the secondary school teachers whom you have had for a college preparatory class can best speak to your potential to succeed in college (list name, department, address and telephone number)?

Notice of admission

Applications for admission and academic credentials are reviewed by the admission committee. Notification of the admission decision is made within two weeks after all required documents have been received, unless additional information is requested. Central College adheres to the National Candidate Reply Date that permits admitted students to select from all admission and financial aid award offers without penalty until May 1. All students planning to enroll full time (12 credits or more) are required to submit an enrollment deposit of \$200, which is refundable until May 1.

Housing

Central College is an intentionally residential community and is committed to on-campus living as a vital component of an integrated learning environment.

As an intentionally residential community, all full-time students are required to live in college-owned housing unless married, of nontraditional age (23 years or older), a veteran, have a dependent child(ren) or enrolled part-time. Please be aware that financial aid will be adjusted for off-campus students.

College/Advanced Placement Credit

Credit earned at accredited colleges or universities will be accepted in transfer if grades of at least a "C" ("C-" is not acceptable) are earned in the courses, and if the courses can be applied toward a Central College degree. A maximum of 60 semester hours of transfer credit (including a maximum of 24 credits from AP, IB, PSEO, and dual enrollment) may be applied toward completion of a Central College degree. If you completed Advanced Placement examinations, contact the College Board, and arrange to have an official score report sent to Central College (CEEB 6087).

Transcripts are evaluated by the registrar. For more information, see the Transfer Credit Policy in the “Academic Policies” section of this catalog.

Transfer Application for Admission

To apply for admission to Central as a transfer student:

1. Submit a completed application with a nonrefundable \$25 application fee. This fee will be waived if: you are a child of an alumnus; you apply before January 15; you apply after a personal campus visit; you apply on-line.
 - Apply on-line at central.edu/admission/apply/
 - Request one directly by writing: Office of Admission, Central College, Campus Box 5100, 812 University, Pella, IA 50219 or
 - Call 641-628-7616.
2. Have your high school send an official transcript of your high school credits to the office of admission.
3. Request that official transcripts from each college/university previously attended be sent directly to the office of admission at Central. Attendance at each institution must be reported regardless of whether credit was earned. Failure to submit official transcripts from all colleges/universities previously attended is sufficient cause for denial or cancellation of admission and could preclude continued enrollment at Central.
4. ACT or SAT test scores are not required for transfer student admission. Candidates may submit standardized test results for the purpose of an admission decision if they desire but it is not required. However, eligibility for course placements require the submission of a standardized test score. Students interested in submitting ACT or SAT test scores may send them to the office of admission if the test results are not posted on your transcript.
5. Transfer students who are currently enrolled at another institution must also provide a final official transcript prior to enrolling at Central.

International student admission

Students who are not United States citizens or United States permanent residents are required to complete the international student application for admission. In addition to the application, all international students are required to supply the following documents:

- Official copies of transcripts with an *original* stamp, signature, or seal is required. The transcript should be in the original language of instruction, with a certified English translation if applicable.
- Official documentation of English proficiency (see specific English language requirements below).
- A clear photocopy of identity page of passport (to ensure correct spelling of applicant’s name and verification of birthdate).
- Official and original results of any standardized tests, such as SAT and ACT examinations. SAT and ACT examinations are not required for international students but are highly recommended for consideration of merit scholarship eligibility.
- Additional supporting application documents include letter(s) of recommendations and a personal statement.

English language proficiency requirement

Central College requires international student applicants to provide one of the following test scores to validate English language proficiency:

- A TOEFL score of 530 paper-based or a score of 71 on the internet-based (IBT) test.
- A band score of 6.0 on the IELTS with no sub score lower than a 5.5.
- SAT Critical Reading score of 420.

English language proficiency is also met in any of the following ways:

- Completion of 36 transferrable credits from an accredited US institution (required for transfer students).
- First-year students who have attended four years at a U.S. or international based high school where English was the primary method of instruction and grades of "C"/2.0 or better were earned in their English language courses.
- Successful completion of level 112 of the Intensive English for Academic Purposes Program from an ELS English Language Center. An official Academic Report and copy of the ELS Certificate must be sent directly from ELS to Central’s office of admission.

International transfer student admission

International transfer students must complete the international student application. In addition to the above requirements transfer students are required to submit college or university credentials from all non-US institutions to a foreign credential evaluation agency for a course-by-course evaluation with a grade point average (GPA)

calculation. Central College recommends that applicants use World Education Services, Inc. (WES) for their credential evaluation. The evaluation report must be sent directly from WES to Central College's office of admission.

Attendance at each post-secondary institution must be reported on the application regardless of whether you want to receive transfer credit or have it used in our admission decision.

INS requirements

International students are required to submit proof of financial resources before an I-20 or DS-2019 is issued, respectively, for the F-1 or J-1 U.S. visa.

Merit and need-based scholarships are available to international students, although the assistance offered does not cover the total cost of attendance.

Post-baccalaureate Students

There are times when individuals with a bachelor's degree, either Central College alumni or graduates of other institutions, may wish to attend Central College to pursue additional educational opportunities. There are three identified reasons to do this:

1. To complete an additional major to gain information relevant to their desired career path. In this case, the post-baccalaureate student:
 - May be part-time or full-time
 - May declare a major not previously completed
 - May not repeat previous course work, including transfer credit
 - May not alter the final GPA from their previous degree
2. To pursue additional endorsement or licensure, especially educational licensure. In this case, the post-baccalaureate student:
 - Must be accepted into the teacher education program
 - May be part-time or full-time
 - May declare a major not previously completed
 - May not repeat previous course work, including transfer credit
 - May not alter the final GPA from their previous degree
3. To utilize additional season(s) of athletic eligibility.
 - Student-athletes who graduated from Central College and have additional athletic eligibility remaining may continue as a regular full-time student and pursue a second major as defined and documented by the institution. To take advantage of this, the Central graduate:
 - Must be full-time, per the NCAA requirement. At Central College, full-time is a minimum of twelve semester hours.
 - Must declare a major not previously completed (previous coursework may apply)
 - Must take a majority of their 3 – 5 semester-hour courses (e.g., 2 of 3 courses, 3 of 4 or 5 courses) in pursuit of their declared major. May not repeat any previous coursework, including transfer credit
 - May not alter the final GPA from their previous degree
 - Student-athletes who graduated from another institution and have additional athletic eligibility remaining must matriculate as a regular full-time student and pursue a second major as defined and documented by the institution. To take advantage of this, the student-athlete must:
 - Must have graduated with a bachelor's degree within four academic years at the prior institution without breaks in their education;
 - Must have had a cumulative grade point average of 3.000 at their prior institution;
 - Must have additional eligibility remaining;
 - Must have all prior transcripts on file at Central College prior to certification to participate;
 - Must be full-time, per the NCAA requirement, in each semester enrolled at Central College. At Central College, full-time is defined as a minimum of twelve semester hours.
 - Must declare a major not previously completed (prior coursework may be transferred in as prerequisites).

Financial Aid: A student with a bachelor's degree will not be eligible for further federal or state aid. Please contact the financial aid office for individual information related to cost.

The registrar's office will work with students in the registration process to ensure successful progression in their declared major. For more information, please see the Central College Registrar.

Guest/non-degree seeking students

Students not seeking to earn a bachelor's degree from Central College may be admitted and allowed to enroll in courses as guest students. Guest students may enroll on a full- or part-time basis but are not eligible for any financial aid from Central College, the State of Iowa or federal entitlement programs. Guest students, who at a later date seek to earn a degree at Central College, must apply for admission to the College as a degree-seeking student and meet the admission requirements detailed above.

No more than 15 semester hours of credit earned while a guest student will be applied to a bachelor's degree program at Central College; a guest student who might later seek degree-seeking status is therefore advised to formally apply for admission as a degree-seeking student as soon as possible.

Non-degree seeking, guest students are not required to meet the standards of satisfactory academic progress; however, Central College reserves the right to evaluate guest students' academic progress, to make recommendations for improving progress and to take progress-related actions (including but not limited to suspension or dismissal from the College). Guest student registration forms are available from the registrar's office, or online at <http://departments.central.edu/registrar/registration/guest-student-registration>.

Post-Secondary Enrollment Option Act (PSEO) and high school visiting program

Students currently enrolled as juniors or seniors in high school are eligible to participate in the PSEO program if they meet each of the required standards. They must rank in the top third of their class and have a qualifying test score in one or more of the following test programs: ACT, SAT, PSAT or ACT-PLAN. Students in the first or second year of high school (or a ninth or tenth grade student who is identified as a gifted and talented student according to the school district's criteria and procedures) must rank in the top 20 percent of their class and have scored a composite of 90 or 900 on the PSAT or SAT, respectively, or a composite of 20 or better on the ACT or ACT-PLAN. Courses open to high school students through PSEO are limited to study above and beyond what is available in their high school curriculum.

To apply, a student must submit an official transcript with test score results. PSEO and visiting student forms are available in the admission office, and upon admission a guest registration form is available from the registrar's office. Admitted students may take up to nine semester hours of credit per academic year.

PSEO students may register for classes on a space-available basis after August 1 for the fall semester and after December 1 for the spring semester. For more information on course availability, contact the registrar at registrar@central.edu or 641.628.5442.

Welcome Statement and Non-Discrimination Policy

Central College's Welcome Statement and Nondiscrimination Policy is designed to promote and protect safety, respect and integrity in relationships among all members of our community. Central College is committed to fostering inclusivity on campus and strives to create a community of students, faculty and staff who are dedicated to supporting and advancing the mission and goals of the college. To achieve these ends, the Central College Community establishes a safe environment for all persons, including those considered diverse by contemporary and sometimes changing standards.

As a college community, we commit to a process of actualizing our mission and goals, thereby striving to achieve congruence between our daily actions and the ideals expressed in our guiding principles. As one of our goals, we promote skills and values essential to becoming responsible citizens in local, national and international communities. Further, we seek opportunities to experience and appreciate the diversity of cultures and perspectives present on campus, in the United States and the world, recognizing the necessity to relate knowledgeably and sensitively in an increasingly complex environment where diversity is to be valued.

As an inclusive academic institution, we embrace and support students, faculty and staff from various spiritual perspectives who endorse the values of acceptance, mutual respect, justice, generosity, compassion, forgiveness and service to others. We aspire to be a community whose members act with consideration for the physical, intellectual, spiritual and emotional well-being of others. We seek to create mutually respectful interactions and positive meaning in relationships with persons of every ethnicity, race, national origin, ancestry, color, socio-economic class, creed, religion, philosophical belief, marital status, disability, physical appearance, sex, age, sexual orientation, gender expression and identity, and organizational affiliation.

With due regard for the principles of freedom of expression and academic freedom, this policy seeks to encourage attitudes of civility necessary for meaningful exchanges between people. All members of the college community are responsible for creating an atmosphere that fosters openness, mutual respect and diversity. The application of the college's nondiscrimination policy will often involve conflicting interests, particularly when applied to freedom of expression. Because the primary business of the college is liberal education and because liberal education cannot take place without the free, open and civil exchange of ideas, the application of the nondiscrimination policy should always be made with consideration of how best to preserve the free, open and civil exchange of ideas.*

Central College is an Equal Opportunity Employer. Discrimination in employment is specifically prohibited except in cases of a bona fide occupational qualification.

Additionally, the college prohibits discrimination against any employee, applicant for employment, student, or applicant for admission on the basis of race, color, creed, national origin, religion, disability, sex (including pregnancy), age, sexual orientation, gender expression and identity genetic information (for employees), or any other characteristic protected by law. Central College students have equal rights, privileges and responsibilities unless specifically restricted by college disciplinary action.

Central College abides by Title IX of the Education Amendments of 1972 which prohibits sex-based discrimination in education programs or activities that receive federal financial assistance. Specifically, Title IX states that:

No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance. More information is at: https://www2.ed.gov/about/offices/list/ocr/docs/tix_dis.html

Inquiries about Title IX, including complaints about discriminatory harassment sexual harassment, sexual assault, dating violence, domestic violence or stalking, may be directed to the Central College Title IX Coordinator and Equity Officer and/or the Office for Civil Rights within the United States Department of Education.

Jill Anderson, Title IX Coordinator
Chief Talent, Equity and Engagement Officer
Central Hall
Central College Box 6000
812 University Avenue
Pella, IA 50219
(641) 628-5249
andersonji@central.edu
TitleIX@central.edu

Office for Civil Rights
U.S. Department of Education
John C. Kluczynski Federal Building
230 S. Dearborn Street, 37th Floor
Chicago, IL 60604
312.730.1560
OCR.Chicago@ed.gov

COLLEGE COSTS (2023-24)

(Please visit our Web site at www.central.edu or call us toll free at 877-462-3687 to receive a copy of our current tuition, room, board and fees.)

Tuition, room, board, fees

Students entering fall semester 2023-24 will be charged tuition (based on a flat amount for 12-18 credits), room, board and fees. Students may choose the board plan that fits their needs.

The charges given in the table below are for 2023-24. Charges for 2024-25 will be determined in January 2024. For more information, call toll free 877-462-3687, and request a printed copy of Central's fees for 2023-24.

	1 st semester	2 nd semester	Total
Tuition (12-18 credits)	\$ 10,494.00	\$ 10,494.00	\$20,988.00
Board (Red-19 meal plan)	3,130.00	3,130.00	6,260.00
Board (Silver-14 meal plan)	2,980.00	2,980.00	5,960.00
Room (normal occupancy)	2,900.00	2,900.00	5,800.00
Totals (Red-meal plan)	<u>\$ 16,524.00</u>	<u>\$ 16,524.00</u>	<u>\$33,048.00</u>
(Silver-meal plan)	\$ 16,374.00	\$ 16,374.00	\$32,748.00

Tuition

Tuition is \$10,494.00 for 12 semester hours and \$875.00 per semester hour for those credits outside the 12-18 semester hours that constitute the normal academic load. For example, a part-time student who elects to carry 10 semester hours of credit will be charged \$8,750.00 for tuition (10 x \$875.00). A full-time student who elects to carry 19 credits of non-tuition exempt credit (see overload policy below) will be charged \$11,369.00 (\$10,494.00 plus \$875.00) for the extra semester hour of credit.

Overload

Students who wish to register for more than 18 semester hours will need permission from the registrar's office unless they are enrolled in one or more of the following overload-exempt courses: group ensembles (MUSG courses), Mock Trial (GENR-214), 1-2 credits Central teachers academy internships (EDUC-397), honors enrichment courses, interdisciplinary honors seminar, senior honors thesis courses/projects, honors seminar (HONR-191/ HONR-391), Writing-293, private music instruction (MUSL courses; instructional fee still applies) and Presidential Fellowship Seminars.

Room

The basic charge for all on-campus residence units is \$2,900 per semester. The general rule is two persons per room. An additional charge of \$725 per semester is assessed for a private single room and \$1,000 for a private double room.

Board

Two meal plans are offered: a Red-meal plan or a Silver-meal plan. The 2023-24 rate for the Red-19 meal plan is \$3,130 per semester; the Silver- 14 meal plan is \$2,980. A commuter meal plan is available for students living off campus. A commuter meal plan can be purchased for \$445 and includes 50 meals. The meal plan week runs from Saturday through Friday.

- 1) The Red-Meal Plan is \$3,130 per semester for 19 swipes per week or up to 4 swipes per day. A maximum of two swipes may be used per meal period. Students will also receive \$100 in Dutch Guilders per semester for meal purchases at the Market, Fred's or the Café. Any balance of Dutch Guilders remaining at the end of the semester will be lost. A swipe used at Fred's or the Café is good for value meal only during the designated meal time.
- 2) The Silver-Meal Plan is \$2,980 per semester for 14 swipes per week or up to 4 swipes per day. A maximum of two swipes may be used per meal period. Students will also receive \$150 in Dutch Guilders per semester for meal purchases at the Market, Fred's or the Café. Any balance of Dutch Guilders remaining at the end of the semester will be lost. A swipe used at Fred's or the Café is good for value meal only during the designated meal time.

Additional fees

Additional fees include:

Monthly payment plan electronic	\$20 per term
Art (ART-161, 267, 270, 350, 367, 370)	\$25
Ceramics I and II (ART-262/362)	\$50
Kinesiology (KIN 111, 151, 215, 257, 361)	\$60
Engineering (ENGR 214, 322, 485)	\$100
Glassblowing I and II (ART-265/365)	\$175
Introduction to the Fine Arts (FA-210)	\$235
Science lab- General	\$125
Student teaching Pella campus based	\$120
Student teaching (special permission off site)	\$500
Audit, general (above or below block per semester hour)	\$75

Textbooks

The cost of text and reference books varies, depending on the courses taken. New, rentals, or e-books are available on Central's website. The average estimated cost is \$1,335 for the 2023-24 academic year.

Private/Group music lessons

Students who schedule a private or group music lesson will be charged the following music lesson fees.

1-credit private (weekly ½ hour private lesson):	\$360.00
1-credit class (weekly group lesson):	\$110.00
Organ Practice time/week	\$10.00

Off-campus programs

Central has programs in Chicago and Washington, D.C. as well as international locations through selected program providers. Students provide their own transportation to and from the off-campus programs and other expenses. Please contact the controller's office for costs.

Central funded scholarships and grants, federal and state gift aid and federal student loans for which the student is eligible will be available to Central students for a maximum of two semesters for off-campus study programs.

Refund policy for official withdrawal from college

Students studying on the Pella, Chicago or Washington D.C. campuses who officially withdraw prior to completing 60 percent of the semester will receive a refund of institutional charges for tuition, room, board and fees based on the percentage of the semester that has not been completed. Financial aid will be returned to the federal, state and Central programs based on the same percentage. Federal sources of financial aid will be returned to the programs from which the student received aid during the payment period in the following order: Unsubsidized Federal Stafford Loans, Subsidized Federal Stafford Loans, PLUS Loans, Pell Grants, and SEOG Grants. Outside scholarships will remain on the student account unless it creates an over-award situation, or the donor specifically requests a refund. All work study earned will be paid to the student. Students who withdraw during the semester will be charged an additional \$100 administrative fee, are required to vacate their residence hall room within 24 hours of signing the withdrawal paperwork AND must verify completion of move out with Residence Life staff. Students will be charged pro-rated room and board fees until verification of move out is complete. If move out date verification with Residence Life staff is not completed before 60 percent point in term, student will not be eligible for a refund on room & board.

After the 60 percent point in the semester, no refund will be granted, nor will financial aid be reduced. The portion of the semester completed is based on calendar days from the first day of the semester through the last scheduled day of finals, including weekends and mid-semester breaks of less than five days. For example – if the student completes 20 percent of the term, the student would only be charged for 20 percent of the tuition, room, board, and fees and would only receive 20 percent of the financial aid other than outside scholarships and work study.

Students studying on an off-campus program will have their federal and state financial aid refunded based on the percentage of the term that has not been completed as stated above. Students should consult the appropriate program handbook concerning the policy for a refund of charges.

Refund policy for unofficial withdrawal from college

Students are responsible for officially withdrawing from Central if they choose to leave or stop attending. Students who do not officially withdraw due to illness, accident, grievous personal loss or other circumstances beyond the student's control will have their institutional charges and financial aid adjusted in accordance with the refund policy stated above. The registrar's office will determine the date that most accurately reflects when the student ceased academic attendance due to circumstances beyond their control.

A refund of institutional charges will not be granted to students who make a choice to stop attending without officially withdrawing from college. Additionally, if the student received Federal Title IV financial aid funds, Central College is required by law to comply with the federal programs Return of Title IV Funds Policy. Central is required to review any student who fails all courses as a possible unofficial withdrawal. If we cannot document that the student was in attendance at class through the 60 percent point in the semester, the student's federal financial aid will be returned to the appropriate programs based on the midpoint of the payment (enrollment) period. This means that 50 percent of the student's federal financial aid must be returned to the federal programs in the order stated above. Students will very likely have a balance due on their student account resulting from financial aid refunds without a corresponding refund of institutional charges. Students will have a period of 14 calendar days after the unofficial withdrawal determination is made to appeal and document their attendance in class after the 60 percent point in the term. If the appeal is granted, none of the aid will be refunded.

Refund policy for suspension and dismissal

Students who are suspended or dismissed must vacate their rooms within 24 hours. No tuition, room, board or fees will be refunded. If a dismissed student received federal Title IV financial aid and is dismissed prior to completing 60 percent of the semester, the federal aid programs will be refunded in accordance with federal policies and based on the percentage of the semester not completed. Accordingly, students utilizing VA education benefits who fail to demonstrate satisfactory academic progress in accordance with school policy will have their benefits interrupted.

Refund policy for students called to active military duty

Central College is supportive of a student who is a member, or the spouse of a member if the member has a dependent child, of the Iowa National Guard or reserve forces of the United States and who is ordered to National Guard duty or federal active duty. Upon verification of orders requiring active duty, you may select from several tuition credit options.

Options available to qualified students: Upon meeting with the Registrar's office to verify orders, Central will work with you to determine the best plan for your circumstances. The college has three options to review and consider with you.

1. Withdraw from the student's entire registration and receive a full refund of tuition and mandatory fees. Students using Federal Tuition assistance will have any unearned tuition assistance funds returned back to the government on a prorated basis through at least 60% (day 114 of the semester) of the term for which the funds were provided.
2. Make arrangements with the student's instructors for course grades, or for incompletes that shall be completed by the student at a later date. If such arrangements are made, the student's registration shall remain intact and tuition and mandatory fees shall be assessed for the courses in full.
3. Make arrangements with only some of the student's instructors for grades, or for incompletes that shall be completed by the student at a later date. If such arrangements are made, the registration for those courses shall remain intact and tuition and mandatory fees shall be assessed for those courses. Any course for which arrangements cannot be made for grades or incompletes shall be considered dropped and the tuition and mandatory fees for the course refunded.

These rules are in compliance with Iowa Code 261.9(1)(g)

Time Frame for Returning Title IV Funds

Return of Title IV Funds (R2T4) calculations will occur immediately upon the institution determining a student has withdrawn. Central will return funds to the appropriate Title IV program as soon as possible, but never later than 45 days from determination that a student has withdrawn from the institution. If the R2T4 calculation results in a credit balance on the student's account, the credit balance will be disbursed to the student on the first Friday following the calculation AND always within 14 days of the credit balance occurring on the student's account. In the event the R2T4 calculation results in an amount to be returned to the Title IV programs that exceeds the amount Central College had

originally retained on the student's account, Central will repay the Title IV program on the student's behalf and the student would then owe the College the same amount.

Post-Withdrawal Disbursements

If it is determined the student is due a post-withdrawal disbursement of Title IV funds because the student was fully eligible to receive funds that had not yet been disbursed, Central will disburse all grant funds to the student account within 45 days. Grant funds will always disburse first to the student account if the student has a balance. Any grant funds the student is eligible to receive that are above the amount due on the student's account will be disbursed to the student NO later than 45 days after the school determines the student withdrew. Post-withdrawal disbursements of loan funds will be OFFERED to the student via email and paper letter within 30 days of determining the student withdrew. The student will have 14 days to accept or decline loan funds (as they do have to be repaid per the master promissory note agreement). If a student accepts a post-withdrawal disbursement of loan funds, they will again be applied to any balance on the student account first and then refunded to the student with a check payment. All refunds on student accounts are released within 14 days of the credit occurring.

Housing deposit

For returning students who wish to reserve a room to live on campus the following year, his/her student account must be paid in full with a \$200 nonrefundable deposit for housing. The deposit is applied to the subsequent semester bill.

Payment of accounts

Student accounts are payable on the published due date each semester. Satisfactory arrangements must be made with the controller's office if full payment cannot be made on the payment date. Students will not be admitted to class unless accounts are paid in full or they have made satisfactory payment arrangements. Interest will be assessed against unpaid balances. Students who have not completed verification by the end of the drop and add period each semester will be charged interest on any unpaid balances. Students using VA education benefits will not be penalized if an expected payment from the VA has not been received. Transcripts will be withheld until all accounts with the college are settled.

Monthly payment plans

A monthly payment plan is available to Central College students. There is a \$20 fee per term. For more information contact the controller's office.

Liability waiver

The college does not carry insurance on personal property of faculty members, staff, students or other workers while on campus and is not responsible for the loss or damage of such property.

FINANCIAL AID

The cost of a quality college education is an important investment in your future. Financial aid, in the forms of scholarships, grants, employment and/or loans, is often necessary to help make a Central College education a financial possibility.

In fall 2022, 100 percent of those new Freshman who sought financial aid received aid. The average new freshman financial aid package for fall 2022 was \$17,618, which included scholarships, grants, work study, and Federal loans. Financial aid is awarded on a yearly basis, and you must reapply each year. Central tries to maintain consistency in annual awarding; however, individual awards may be influenced by significant changes in your demonstrated need factor, academic achievement, and/or funding from federal, state, or institutional sources.

Applying for financial aid

To be considered for financial aid, you must be an accepted degree-seeking applicant. If you wish to be considered for need-based financial aid, you should file a Free Application for Federal Student Aid (FAFSA) as soon after Oct. 1 as accurate income information is available. Iowa residents must have a completed needs analysis form at the federal processor prior to July 1 to be considered for need-based gift assistance from the state.

Please complete the FAFSA online at www.fafsa.gov. You may sign the form electronically with an FSA user ID for the student and a separate FSA user ID for your parent if you are a dependent. Please indicate that you would like to have the results released to Central College (code 001850). You will receive a Student Aid Report (SAR) directly from the federal processor. You should review the information for accuracy and immediately make corrections if needed. Results received at Central for accepted applicants prior to January 15 will be given first consideration for funding. Apply for aid early, even if you believe you may not qualify. Missed deadlines can challenge your ability to attend the school of your choice.

'No-need' awards

If you choose not to file a FAFSA, or the results indicate that you and your parents will be able to meet the academic year's cost of college without financial aid, you will still be considered for financial aid on an academic basis. Central has a number of scholarships and awards available to students who have demonstrated high academic achievement or outstanding ability in some special area (excluding sports).

The aid award

The financial aid director regularly reviews files to develop an aid award for accepted students who have either had the FAFSA results sent to Central or wish to be considered for aid on an academic basis only. Such an award will be made up of one or more types of aid: gift assistance that does not need to be repaid in the form of scholarships, grants or awards; loans that must eventually be repaid; or employment in an on-campus or community service position. New students who decide to attend Central should accept the aid award and return one copy to the office of financial aid at Central College. Current student awards are considered passive acceptance awards, meaning that we assume you want the award unless you tell us otherwise.

Crediting your student account

The value of the award is divided proportionately over the academic year. A portion of the gift assistance is credited to your account at the beginning of each semester. Outside scholarships and loan funds are credited to your account when the funds are received and endorsed if necessary. Employment earnings are paid to you periodically based on the hours worked or job performed. Employment earnings should be viewed as your spending money, not a reduction of the amount owed. Aid is awarded with the expectation that you will be enrolled in a sufficient number of credits to be considered full time. If you are enrolled in less than full-time status, aid will be reduced in accordance with federal, state, and institutional policies. You must be enrolled at least at half-time status (minimum of 6 credits in a given semester) to qualify for most aid programs.

If you are selected for verification you must complete the verification process before any federal or state aid may be credited to your account. If you have not completed verification by the end of the drop and add period of each semester, you will be charged interest on the unpaid balance of your account, including amounts that may be covered by federal or state aid after verification is complete.

Renewal/Satisfactory Academic progress

Financial aid is generally available for four academic years at Central College. Renewal is not automatic, however, and it is your responsibility to see that all requirements for renewing aid are met. Continuation of financial aid beyond the fourth year may be considered if you have previously formalized your intention to enroll as a part-time student or you have been granted an extra semester or year based on an appeal documenting circumstances beyond your control that either prevented you from completing your degree requirements in the traditional four-year-timeframe or that require you to be enrolled for a semester beyond graduation.

Application materials are distributed late in the fall semester through your Central e-mail account. You will be notified in late spring or early summer of the aid awarded for the next academic year.

Satisfactory academic progress standards for financial aid:

Students receiving financial assistance are required to maintain satisfactory academic progress during their enrollment at Central College in order to receive financial assistance. Satisfactory academic progress (SAP) measures both a qualitative and quantitative component. SAP is achieved when a student maintains both the required grade point averages and the required completion rate.

Required Grades (Qualitative Measure):

At the end of each academic term (fall, spring, summer), the student's cumulative grade point average will be reviewed. Students with a grade point average lower than that required to be considered making satisfactory academic progress for financial assistance will be placed on financial aid warning for the following semester. During the warning period the student may be able to receive financial assistance, but if the student fails to achieve the required cumulative GPA at the end of the next semester the student's financial assistance will be suspended.

When academic progress is measured:	Students must achieve:
After 1 semester	1.700
After 2 semesters	1.800
After 3 semesters	1.900
After 4 semesters	2.000
After 5 semesters	2.000
After 6 semesters	2.000
After 7 semesters	2.000

Required Completion Rate (Quantitative Number):

In addition to maintaining the grades specified above, students must progress toward completion of a degree program within a specified time frame. In order to meet these minimum requirements, Central students must complete:

- 23 semester hours of credit at the end of one full academic year
- 47 semester hours of credit at the end of two full academic years
- 75 semester hours of credit at the end of three full academic years
- 106 semester hours of credit at the end of four full academic years

If a student falls short of any completion rule, (qualitative or quantitative) the student's financial assistance will be placed on warning for the following semester. During the warning period a student will be able to receive financial assistance. If the student fails to successfully complete 67% of the attempted credits during the next semester of enrollment (the semester of the warning period) financial aid will be suspended beginning with the next term. Suspension of aid is the loss of financial aid eligibility and will result in no aid for the term. Suspension of financial aid is not the same as academic suspension which is handled by the associate dean of academic affairs office. Successful completion of credits means that a student completes and successfully passes said credits.

Please note that this is the satisfactory academic progress policy for determining financial aid eligibility. Academic policies that relate to academic probation and academic suspension from the college may differ. For more information, see "Academic Warning, Probation and Dismissal under Academic Policies." Students receiving tuition remission or tuition exchange employee benefits for dependent children and spouses must meet these standards to continue receiving the employee benefit.

Incomplete Grades: An incomplete or “I” grade will be treated as a failing grade in the cumulative GPA. If a grade is later given for the course, it is the student’s responsibility to notify the director of financial aid so that academic progress may be reassessed.

Withdrawals: Credits from which the student has withdrawn or received a grade of “W” will be counted as attempted credits for purposes of determining satisfactory academic progress. However, credits dropped prior to the end of the add/drop period will not count as credits attempted.

Repeated Coursework: When a student repeats a course, the most recent grade received will be used in the calculation of the cumulative grade point average. Each time the course is taken, the credits for the course will count as attempted credits.

For the purpose of administering federal financial aid (i.e. Title IV funding), the following restrictions apply to all courses appearing on a student’s academic transcript.

- A failed course may be repeated as many times as needed;
- Once a student passes (D- or better) a previously failed course, the student may repeat the course one more time to try and achieve a higher grade, in which case the most recent grade and credits earned will be counted toward graduation and in calculation of the student’s cumulative grade point average;
- A previously passed course (grade of D- or higher) may only be repeated once, even if the student is attempting to earn a minimum grade required for a major or minor, or to raise the major or cumulative grade point average to the 2.0 minimum required for graduation;
- Courses designated as repeatable (i.e. music ensembles, private music lessons, internships, and practicums) are not restricted, and students may repeat these courses for credit an unlimited number of times.
- Central’s academic repeat policy may include additional restrictions for repeating courses. For more information, see the Academic Policies section of Catalog.

Transfer Students: Transfer credits that are accepted at Central College will be counted toward the total attempted credits in determining whether the student is maintaining satisfactory academic progress.

Re-establishing Eligibility: A student who has lost financial assistance eligibility can regain eligibility by making up deficiencies while not receiving aid. It is the student’s responsibility to notify the Director of Financial Aid to request aid reinstatement when this has been accomplished.

Appeals: A student that does not meet the minimum completion rules and/or GPA requirements to be considered as maintaining satisfactory academic progress, may appeal in writing to the Director of Financial Aid for extenuating circumstances, such as the death of a family member or an illness or injury to the student. All appeals MUST be made in writing and include:

- Information regarding why the student failed to make SAP, and what has changed in the student's situation that will allow the student to demonstrate SAP after the next term of enrollment.
- An academic plan that details how the student will complete his/her degree. The plan MUST demonstrate how the student will progress both in regard to GPA and cumulative credits to get back on track in seeking his/her degree. The student must be able to demonstrate that it is reasonably possible to complete the program successfully.

An appeal committee will review the student’s appeal request and notify the student of their decision in writing within one calendar week of receipt of the appeal.

Scholarships-Grants-Loans-Student Employment

Scholarships

Merit scholarships and awards

Central College offers a variety of both competitive and non-competitive scholarships and awards. Most scholarship and award values are for a specific amount based on the year that you enter Central and other criteria. We set the value at a level that we hope will recognize and honor the recipients and their specific qualifications as well as helping to make Central an affordable college choice. The scholarship or award value does not increase from year to year, as an

increase in aid that is not funded by annual gifts or significant increases to the endowment would create a need for further increases in tuition to cover the cost. You will be awarded the highest merit scholarship or award based on academic and/or talent criteria for which you qualify. Other Central awards may be added to academic awards provided the award value does not exceed full tuition and you will not be awarded in more than one of these areas. Heritage Awards may also be added to other academic awards provided full tuition is not exceeded.

Endowed and Annual Gift Scholarships

A number of endowed and annual gift scholarships are available as a result of generous gifts to the college. Grants are also made on an annual basis by donors. The endowment income and gifts are awarded annually to deserving students and may be based on academic as well as financial considerations.

Grants

Federal Pell Grants

This federal program is designed for students who demonstrate the highest level of financial need and could not attend college without significant financial aid. Awards range in value and are based on the family contribution and the cost of attending Central College. Apply by filing a Free Application for Federal Student Aid.

Federal Supplemental Educational Opportunity Grants

These grants are available to a limited number of undergraduate students who demonstrate extremely high need and are eligible for the Federal Pell Grant. Application is made by filing a Free Application for Federal Student Aid.

Iowa Tuition Grant

Iowa residents attending private colleges and universities in the state may be eligible to receive an Iowa Tuition Grant under a program established by the 63rd General Assembly of the Iowa Legislature.

The program is administered by the Iowa College Student Aid Commission. The awards will be based solely on the applicant's need for financial aid, with priority given to the neediest candidates. Scholarships and grants-in-aid from other sources will be taken into consideration in determining a candidate's financial need. In the event that available state funds will be insufficient to pay the full amount of each approved grant due to the state's fiscal condition, the Iowa College Student Aid Commission will administratively reduce the maximum award to an amount less than the statutory maximum.

To apply for a State of Iowa Tuition Grant a student must file a Free Application for Federal Student Aid prior to July 1 listing Central College.

Loans

Federal Direct Stafford Loans

Federal Direct Stafford Loans are available to aid applicants who file a FAFSA and are enrolled at least half-time in college. These loans are federally funded with the federal government paying an interest subsidy, if you show financial need, and without an interest subsidy, if you do not show need. If eligible for the interest subsidy, the government will pay the interest on the loan until six months after you graduate, withdraw from college, or enroll less than half-time. If eligible for an unsubsidized loan, you are responsible for the interest while in college or no longer enrolled at least half-time as well. A loan fee of 1.057 percent will be deducted from each disbursement. No payment toward the principal is required while enrolled at least half-time. Federal Direct Stafford Loans have a fixed interest rate of 4.99 percent under current regulations. Repayment of the principal plus simple interest begins six months after you leave school at a minimum rate of \$50 a month. The Federal Direct Stafford Loan is suggested only as an additional source of funds. You are not obligated to apply for a Federal Direct Stafford Loan if it is not needed.

Federal Direct Plus Loans (PLUS)

Federal Direct Parent Loans (PLUS) are available to parents who have a dependent child enrolled in college. These loans are guaranteed by the federal government. Individual eligibility is determined by subtracting any financial aid available for the year from the cost of education. Financial need is not a prerequisite. The loans are made payable to the parent and Central in multiple disbursements. A loan fee of 7.54 percent will be deducted from each disbursement. Repayment begins immediately upon disbursement with a minimum payment of \$50 a month; however, a deferment option is available through a request with the direct loan servicing center. Federal Direct PLUS Loans have a fixed interest rate of 6.28 percent under current regulations. The borrower may take at least five years to repay

Federal Direct PLUS Loans and there are a variety of repayment options available. Federal Direct PLUS Loans should be sought as supplemental funds after all other federal sources of assistance have been investigated.

Central College Institutional Loans

Contact the Financial Office regarding loan availability.

Student Employment

More than 70 percent of Central's students are awarded some employment opportunity during the school year. Full-time students who demonstrate financial need are given priority for on-campus employment.

Efforts are made to assign students to positions for which they are best suited by past experience and training, and to provide work in amounts proportionate to their needs. Continued employment is contingent on good performance.

Employed students are paid directly by the controller's office every four weeks. You are allowed to earn the amount specified in your aid award but the final responsibility for whether the amount is earned belongs to you and your supervisor.

ACADEMIC PHILOSOPHY

ENGAGED CITIZEN CORE CURRICULUM

engaged citizenship = responsible membership in the communities to which we belong

"In Ancient Rome, the Latin term *civitas*, according to Cicero in the time of the late Roman Republic, was the social body of the *cives*, or citizens, united by law. It is the law that binds them together, giving them responsibilities on the one hand and rights of citizenship on the other." [Wikipedia](#)

Engaged citizenship has three essential features (3 Rs): relationships, reflection, and responsibility.

As engaged citizens, we are mindful of our relationships to other human beings and the world around us. These include our relationships to families and local communities as well as to diverse people across the nation and the globe. We are also mindful of our relationships to nature and to technology, the non-human elements that shape our lives.

As engaged citizens, we practice critical reflection about questions of importance to our communities and the relationships mentioned above. This reflection requires informing ourselves about the world by using rigorous methods of inquiry. It also involves entering the intellectual conversation, formulating, and critiquing arguments as part of the public discourse.

Finally, as engaged citizens, we act with responsibility, working to build a more just society and to find solutions to society's most pressing problems. Informed by ethical reflection, we are actively involved in our communities, exercising empathy in our service to others.

The Student Learning Outcomes include:

- Cultivate behaviors conducive to life-long learning.
- Develop and demonstrate essential knowledge, habits and values for ethical, engaged citizens in diverse communities.
- Develop and demonstrate essential skills for future careers.

CIVITAS 110

Required of all first-time, first-year students in the fall semester, *CIVITAS 110* is an interdisciplinary seminar designed to introduce students to the intellectual life at a liberal arts college and to academic life at Central. Small groups of students explore the intersections at which academic and intellectual disciplines, ideas, and events converge, connect, and collide. Faculty from across campus teach the seminars and select topics for their section.

This course will emphasize becoming an engaged, reflective, and responsible citizen of our campus community. The course will introduce first-year students to the liberal arts and to the Core's theme of Engaged Citizenship and serves as the foundation for Civitas II and other Core courses. Students will develop skills in open-inquiry, respectful dialogue, and critical reading, as well as written and oral communication.

CIVITAS 210

The course will focus on a problem or question related to creating a more just society. The problem or question can apply at the national or international levels, but it could also have some connection to work we can do in our local communities. Some form of community engagement is an expectation. The course will serve as a common sophomore experience and will reinforce the student learning outcomes and written and oral skills introduced in *Civitas 110*.

Advising

Academic advising at Central College is a shared responsibility of the student and the advisor. The academic advising program empowers students to become lifelong learners through examination of life goals, participation in curricular programs and co-curricular activities, and knowledge of career opportunities. A faculty advisor is assigned to each student admitted to Central, and students may change advisors as their major interests change and develop.

Advisors' responsibilities are:

- To provide accurate information about requirements for the Core, majors, minors, and overall fulfillment of the degree;
- To provide guidance and referrals for choosing classes, and helping students map a career path;
- To be available and responsive to concerns and questions;
- To provide guidance and referrals for students to resolve academic or personal issues; and
- To maintain confidentiality regarding students' academic records.

Students' responsibilities are:

- To know the college's requirements and policies;
- To articulate and pursue personal, educational and career goals congruent with personal values and realistic self-appraisal;
- To monitor progress through their own program evaluation;
- To consult with an academic advisor several times each semester to review their academic program and progress toward their goals; and
- To accept the consequences of academic decisions, including but not limited to declaration of a major or minor, course selection or withdrawal, and follow-through with referrals.

GRADUATION REQUIREMENTS

Students must follow the graduation requirements in effect at the time of their enrollment. Students who enroll and subsequently interrupt enrollment (e.g. withdrawal, suspension) for more than two years must complete the requirements in effect at the time of re-entry. While academic advisors, faculty and staff provide significant academic planning and related assistance to students, completion of all degree requirements, and the process of monitoring progress to that end, is ultimately the responsibility of the student.

Students earn the Bachelor of Arts degree or Bachelor of Science (Engineering) degree as follows:

- 1) **Complete a total of 120 credit hours for the Bachelor of Arts degree or complete 124 credit hours for the Bachelor of Science (Chemistry or Biochemistry) or complete 136 credit hours for the Bachelor of Science (Engineering) degree or 150 credit hours for the Bachelor of Science (Accounting).**
- 2) **Complete no more than 20 credits of internship or practicum.**
- 3) **Complete no more than 60 credits of course work taken in the major discipline counting toward the total 120 credits required for the bachelor of arts degree or the 124 credit hours for the Bachelor of Science (Chemistry or Biochemistry) or the 136 credit hours for the Bachelor of Science (Engineering) degree or the 150 credit hours for the Bachelor of Science (Accounting).** This limitation applies to disciplinary/departmental majors only.
- 4) **Complete at least 20 credits of course work at the 300-level or above.**
- 5) **Earn a minimum cumulative grade point average (GPA) of 2.000.**
- 6) **Complete all requirements for at least one approved academic major with a minimum GPA of 2.000 in all courses applied toward the major(s).** Students are required to complete the major requirements in effect at the time the major declaration form is submitted to the registrar's office.
- 7) **Complete all Engaged Citizenship Core requirements as outlined below.**
- 8) **Satisfy the following residency requirement.** The two semesters (summer not included) just prior to graduation and a minimum of 60 credits, including 30 of the last 60 credits, must be completed in residence. Students in good academic standing with fewer than 9 credits left to complete toward the Central College degree may be granted permission to complete their remaining hours at another accredited college or university with the permission of the academic advisor, major department chair, and the registrar. Students approved to participate in any of Central's dual degree programs must complete the two semesters (summer not included) just prior to enrollment at the dual degree granting institution and a minimum of 60 credits in residence; 30 of the last 60 credits must be completed in residence or at the dual degree granting institution. "In residence" is defined as enrollment at a Central College location (the Pella campus, an approved study abroad or international program, Chicago Semester, or The Washington Center). Note: The associate dean for curriculum and faculty development may grant exceptions to this residency requirement.

Application for Graduation. Students must submit an application for graduation at least two semesters prior to the awarding of the degree (84 completed credit hours). For more information, see "Academic Policies" in the *Academic Catalog*, or the current academic calendar.

Engaged Citizen Core Requirements

Complete all of the following core requirements: Civitas, Citizenship, Written and Oral Communication, Exploration and Modern Language. Core designations are identified throughout the academic catalog at the end of the course description, in Self-Service and on the online searchable schedule.

Civitas (7-8 credits)*. Complete I and II.

- I. **CIV 110 Civitas (4 credits).** All first-time, first-year students, and transfer students with fewer than 12 transferable credits (excluding Advanced Placement, International Baccalaureate, or CLEP) entering in the fall semester will take *CIV 110 Civitas*. Transfer credit may not be used to satisfy this requirement.
- II. **CIV 210 Civitas (3-4 credits).** A problem or question-based interdisciplinary seminar related to creating a more just society. Each second-year student is required to take one *CIV 210* seminar either in the fall or spring semester. Transfer credit may not be used to satisfy this requirement.

*Transfer students entering with less than 12 credits, must take CIV 110. Transfer students entering with 12-58 credits must take CIV 210. Third-year transfer students or those with their Associate of Arts degree are encouraged to take *CIV 210*, but it is not required.

Citizenship (6-8 credits)

Students will take two courses designated CTN at the 200-level or above. Off-campus study for a semester on an international program may count as the equivalent of one course. At least one course must be from outside the academic division of the student's major.

Written and Oral Communication (6-8 credits)

Successfully complete two WOC courses at the 200-level or above. One course must be within their major division, and one course will be outside of their major division.

Exploration (9-12 credits)

Successfully complete three courses designated EXP, one from each academic division, prior to the end of their second year. Transfer students with an Associate of Arts degree are exempt from this requirement.

Modern* language requirement (0-8 credits). The modern language requirement (0-8 credits) of the Engaged Citizen Core supports Central College students' (inter)cultural development through the attainment of college-level language skills. The study of modern languages opens new pathways for cultural encounters and helps students to reflect on their own cultures.

Complete one of the following:

- a. Successfully complete two semester-long courses (or the equivalent) of college-level study of a modern second language. Students may count a one-semester intensive language course (numbered 122 or higher) as equivalent to one year (two semesters) of a second language from an approved international program.
- b. Take the placement examination before beginning modern language course work at Central and earn a placement score beyond the first-year language courses.
- c. Take the placement examination before beginning modern language course work at Central, earn a placement score in the second semester of the first year, and then enroll in and successfully complete the second semester course.
- d. Students who wish to demonstrate proficiency in a modern language not offered at Central College may do so through an examination approved by the modern language faculty. Central College does not administer or pay for proficiency examinations in languages not offered at the college. Central will recognize the results of proficiency examinations in languages administered by the American Council on the Teaching of Foreign Languages. (See the registrar's office)
- e. Special Circumstances[^]
 - i. Students for whom English is not their first language must provide a letter from the high school principal or counselor attesting that English is not the first language for the student exempting them from the language requirement.
 - ii. International students whose first language is not English are exempted from the language requirement; they may not earn academic credit by completing language courses at the 322-level or below in their primary language.

[^]Students may not qualify as both.

Note: Students who place beyond the first semester, complete additional language course work, and earn a grade of "C" or better are eligible for credit by proficiency (see "Credit by Proficiency" section of this catalog).

*Modern Language is defined as a language currently in use as a native language to engage others in community.

ACADEMIC POLICIES

Academic Appeals

Students who wish to appeal a curricular policy or graduation requirement must file a petition with the Curriculum Approval Committee. Forms are available from the registrar's office or the registrar's page on my.Central. Rules have been established by faculty in support of good educational practice. Neither negligence nor ignorance of rules is regarded as a good reason for granting an appeal.

Semester calendar

At Central College, the academic year is divided into two 16-week semesters and a 10-week summer term. Students normally enroll for approximately 4-5 courses each semester, enabling them to complete, on average, 30-34 credits per academic year and 120 credits – the minimum required for graduation with a BA degree– in four years.

Semester hour of credit definition

In accordance with federal regulations, Central College defines a semester hour of credit as a minimum of 45 hours of student engagement with course material, as defined by the faculty member of the course. This can include direct instruction time as well as indirect engagement, including (but not limited to) reading, assignment completion, exam preparation, writing, and presentations. This standard also applies to other academic activities, including laboratory work, internships, practicum, studio work, and other modes of academic work that lead to the awarding of academic credit.

Disabilities

Central College abides by interpretations of the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973 that stipulates that no student shall be denied the benefits of an education "solely by reason of a handicap." Disabilities covered by law include, but are not limited to, learning disabilities, hearing, sight, or mobility impairments, and other health related impairments.

Application for Graduation and Participation in Commencement

Students notify the registrar's office of their intent to graduate and participate in commencement by filing an application for graduation at least two semesters prior to the intended date of graduation and after completion of at least 84 credits. Applications are due as follows:

Anticipated Completion Month

May
August
December

Graduation Application Due

Due May 1, one year prior
Due August 1, one year prior
Due December 1, one year prior

Seniors who have applied for graduation will have their names listed in the commencement program and are expected to participate in the commencement ceremony.

Central College holds one commencement ceremony per year in May. August and December graduates may request permission to participate in the commencement ceremony prior to the anticipated completion date if:

- The student is enrolled during the spring semester; and
- The student is in good academic standing, and
- The student is within 17 credits of completing graduation requirements, and
- The student provides a plan to complete all remaining graduation requirements by the end of the fall semester following the commencement ceremony.

Students requesting an exception to the above policy must request from the registrar, in writing, permission to participate.

Graduation with Latin honors

Students who achieve a cumulative grade point average of at least 3.500 may be recommended by the faculty for commencement distinctions. The degree may be granted *cum laude* for those students with a cumulative GPA of 3.500-3.699, *magna cum laude* for those with a cumulative GPA of 3.700-3.899, and *summa cum laude* for those with a cumulative GPA of 3.900 or above. No student with more than one grade below C- during the last three years at the college will be considered for academic distinction.

Students who transfer to Central no later than the beginning of their third year and complete at least 60 credits at Central are eligible for the honors, but only their performance at Central College will be considered.

Grading system

Central employs the following grading system:

A	4.0 grade points per semester hour	P (Pass) <i>not applicable, minimum grade "C" is required to receive a "P" grade</i>
A-	3.7 grade points per semester hour	I (Incomplete) <i>not applicable</i>
B+	3.3 grade points per semester hour	W (Withdrawal) <i>not applicable</i>
B	3.0 grade points per semester hour	NC (No Credit) <i>not applicable</i>
B-	2.7 grade points per semester hour	AUD (satisfactory audit) <i>not applicable</i>
C+	2.3 grade points per semester hour	CR (Language/ Mathematics proficiency) <i>not applicable</i>
C	2.0 grade points per semester hour	
C-	1.7 grade points per semester hour	
D+	1.3 grade points per semester hour	
D	1.0 grade points per semester hour	
D-	0.7 grade points per semester hour	
F(Failure)	0 grade points per semester hour	

Grades of P, I, W, NC, AUD and CR are not included when calculating grade point average. Only courses completed at Central College on the Pella campus, on an international study program, Chicago Semester or Washington D.C. Semester or Acadeum courses are used to calculate a student's grade point average.

Incomplete ("I") grade

The incomplete grade "I" is a temporary grade indicating that work for the course is not complete. Instructors may assign an incomplete grade in a course that the student cannot complete on time due to extenuating circumstances, such as major illness or a death in the family, by filing an Incomplete Grade Request form with the registrar's office prior to the end of the current grading period. The date by which a student must complete a course is determined by the course instructor, but all work must be completed no later than the first day of the spring term for a fall class and the first day of the summer term for a spring class. Typically, incompletes are not offered in the summer. At the time of the incomplete request, instructors will provide to the registrar the grade the student is currently earning in the course as the grade the student can expect to receive if the course is not completed by the agreed-upon deadline. Requests for an extension beyond the deadline should be made, in writing, to the registrar prior to the previously approved deadline. Both the instructor and student must agree to the extension.

Withdrawn ("W") grade

A grade of "W" indicates a student has either withdrawn from college or withdrawn from a particular course after the regular course drop and add period (typically the Friday of the second week of classes). The "W" grade is recorded on the transcript, but no credit is given. A student may not withdraw from a course, except for medical reasons, after the end of the 12th week of class.

Pass ("P")/No Credit ("NC") grades

With the approval of the advisor and course instructor, junior- and senior-level students may elect to attempt a maximum of 20 credits outside core, major, or minor requirements, and those courses required for certification, on a pass/no credit basis. Courses offered on a pass/no credit only basis may be used at the discretion of the department to meet major or minor requirements. Credit and a "P" (pass) grade are granted provided the student has earned the equivalent of a "C" grade or better. A "P" grade will have no effect on the student's grade point average. Students who earn a grade below a "C" will not receive credit for the course and an "NC" (no credit) grade will appear on the transcript. "NC" grades will have no effect on the student's grade point average. A student must submit an approved pass/no credit option form to the registrar's office before the end of the regular add/drop period.

Grade Appeals

A student who believes his/her final grade in a course is incorrect should first review the syllabus and collect graded assignments. The student should then contact the faculty member of the course as soon as possible to discuss the perceived problem and to request in writing that the grade be reviewed and refigured in case an error has been made.

If the student still believes the grade to be unfair or incorrect after this initial review, they should see the associate academic dean (or designee named by the VPAA) who will review the class requirements with the student and help them to determine whether there is a reasonable basis for an appeal.

Students who wish to appeal must submit a written letter to the associate academic dean (or designee named by the VPAA) within one month of the beginning of the semester following the term in which the grade was received. The letter should explain in detail the basis for the appeal. The associate dean (or designee named by the VPAA) will then discuss the case with the faculty member, and if further review is necessary, request the department chair or an appropriate designee to objectively review the appeal. These faculty colleagues will consult with the faculty member involved to help him/her determine whether the disputed grade was fair and consistent with published expectations for grading in the course. The associate dean (or designee named by the VPAA) will convey the result of these discussions to the student.

Final responsibility for grades rests with the instructor of that class. If an instructor is no longer available at the time of appeal, disposition of the case will fall to the current department chair. Only grades issued by Central College faculty may be appealed at Central College.

Students who believe the above process has been unfairly applied may further appeal in writing to the Vice President of Academic Affairs and Dean of the Faculty.

Student Grievance Policy

Beginning July 1, 2011, the U.S. Department of Education regulations to improve the integrity of programs authorized under Title IV of the Higher Education Act (HEA) as amended (the *Program Integrity Rule*) took effect. The *Program Integrity Rule* requires, among other things, that each college or College authorized to offer postsecondary education in one or more states ensure access to a complaint (grievance) process that will permit student consumers to address the following:

1. Alleged violations of state consumer protection laws that include, but are not limited to, fraud and false advertising;
2. Alleged violations of state laws or rules relating to the licensure of postsecondary institutions; and
3. Complaints regarding the quality of education or other State or accreditation requirements.

Central College, as an institution authorized to provide postsecondary education in the State of Iowa, is committed to full compliance with the Program Integrity Rule. The College is accredited by the [Higher Learning Commission](#).

Central College seeks to resolve all student concerns in a timely and effective manner. Students have the right to file a grievance against Central College. Students may file a Grievance up to 90 calendar days from the date of the incident. Students may not file anonymously.

A **Grievance** alleges that the College or one of its agents has violated institutional policies, accreditor policies, federal or state laws, or any other agreements joined by Central College. Grounds for a Grievance include failures in the provision of a program of study or related academic or administrative service, or institutional policies that negatively affect the quality of a student's learning opportunities. Grievances fall outside of standard College processes (e.g., grade dispute process, conduct appeals), as outlined in the [Central College Academic Catalog](#), [Student Policies](#), and the [Faculty Policies](#), and require that students have already first exhausted established Central College processes and mechanisms to address their concern.

Grievance Resolution Process

Any student who believes they have been subject to unjust actions or denied of their rights is expected to make a reasonable effort to resolve the matter before seeking formal resolution. The student should request a meeting with the parties directly involved, describing the nature of the Grievance and a desirable resolution. Both parties are encouraged to try to find a reasonable and satisfactory resolution.

The following offices and resources at Central College are available to current and prospective students for the resolution of Grievances. These offices provide specific administrative means to address and resolve most, if not all, of the questions and concerns students may have.

- Registrar's Office (academic concerns): 641.628.5442, registrar@central.edu
- Student Development (student development concerns): 641.628.5293 studentdevelopment@central.edu
- Business Services (financial/billing concerns): 641.628.5185, studentaccounts@central.edu
- Enrollment (admission concerns): 641.628.7616, admission@central.edu
- Financial Aid (financial aid concerns): 61.628.5336, finaid@central.edu
- Academic Affairs (all other concerns): 641.628.5233, centraldean@central.edu

If the parties involved in the Grievance are unable to find a satisfactory resolution and further action is deemed appropriate, students must follow the procedures outlined in the following process:

1. Students wishing to file a Grievance against Central College may do so by completing a [Student Grievance Form](#) and speaking with one of the following designated personnel:

- Academic concerns: Registrar
- Student development concerns: Dean of Students
- Financial/billing concerns: Director of Student Accounts
- Enrollment/Financial Aid concerns: Dean of Enrollment Management
- All other concerns: Vice President for Academic Affairs (VPAA) or designee

Students' confidentiality will be protected to the extent legally permitted; officials of the college may require access to students' educational records to fully investigate the Grievance. Students who are initiating a Grievance against Central College must authorize release of information necessary to investigate the grievance.

2. The student will receive, generally within 10 business days, a written response from the designated personnel relevant to their Grievance, including a determination of whether the issue or incident constitutes a Grievance according to Central College's policy and definition. If the submitted issue or incident does not constitute a Grievance according to Central College's policy and definition, the student will be informed in writing, and the college process will be considered concluded.

3. If the submitted issue or incident submitted constitutes a Grievance according to Central College's policy and definition, the designated personnel will meet with the student and any other relevant parties to discuss the issue or incident which led to the filing of the Grievance. Any meetings pertaining to the investigation of the Grievance will be conducted as quickly as possible and generally will be concluded within 10 business days of the determination of a Grievance.

4. The designated personnel, in consultation with the appropriate Vice President(s), will identify (an) appropriate resolution(s), generally within 10 business days of the close of the investigation. The designated personnel will inform the student in writing of the resolution(s). Decisions regarding resolutions are not subject to internal appeal.

5. The entire process will generally be concluded within 30 business days of the initial receipt of the Grievance.

6. Students have the right to obtain legal counsel.

Grievances Addressed to External Agencies

If a student believes that the college's administrative procedures outlined above have not adequately addressed concerns identified under the *Program Integrity Rule*, they may pursue an external process. Students may file a Grievance against the college with relevant state and federal agencies including, but not limited to, the Higher Learning Commission, the Iowa College Student Aid Commission, the Iowa Attorney General, and the Office of Civil Rights. Please note that many agencies require students to first exhaust their college's grievance procedures before filing a Grievance with the agency.

We recommend that students refer to the individual agency's policies to familiarize themselves with relevant requirements including filing deadlines and whether they must first pursue the college's grievance process.

Higher Learning Commission (HLC)

230 South LaSalle Street, Suite 7-500
Chicago, Illinois 60604-1411

Phone: 312.263.0456

Toll Free: 800.621.7440

Fax: 312.263.7462

The HLC of the North Central Association of Colleges and Schools is an independent body responsible for the accreditation of programs offered by Central College. Each year, the Commission receives a number of grievances about institutions from faculty, students, and other parties. The Commission has established a clear distinction between individual grievances and grievances that appear to involve broad institutional practices. Where a grievance does raise issues regarding the institution's ongoing ability to meet the Criteria of Accreditation, the Commission forwards the grievance to the institution and requests a formal response. Grievances may be filed with the Commission at the above link.

Iowa Department of Justice Office of the Attorney General Consumer Protection Division Hoover State Office Building
1305 E. Walnut Street
Des Moines, Iowa 50319-0106

Phone: 515.281.5926
Toll Free: 888.777.4590
Email: consumer@iowa.gov

The State of Iowa protects its citizens against consumer fraud. You may file a written grievance online or download the file, print it, complete it and mail to the Attorney General's Consumer Protection Division.

Iowa College Student Aid Commission

Toll-Free: 877.272.4456 (Information Service Center) <https://www.iowacollegeaid.gov/StudentComplaintForm>

Iowa College Aid accepts concerns and grievances from any student attending an Iowa school, regardless of the student's state of residency, and from an Iowa resident attending any school, regardless of its location. Iowa College Aid will review submitted forms and determine the appropriate course of action. Actions may include, but are not limited to: contacting the constituent, contacting the institution in question and/or referral to another agency. In all cases, the constituent will receive written response to his or her request and the request from will be retained for Iowa College Aid's records

United States Department of Education

Office for Civil Rights
Regional Office #5 Office
500 West Madison St., Ste. 1475
Chicago, IL 60661
Phone: 312.730.1560

Anyone who believes that an education institution that receives federal financial assistance has discriminated against someone on the basis of race, color, national origin, sex, disability or age, may file a grievance.

Students may also file a grievance with their home state, or the state in which they are participating in a Central College program. [See a list of links to state processes.](#)

Non-Retaliation Statement

Retaliation, or attempts to retaliate, against any individual who files a complaint or Grievance is strictly prohibited, per [college policy](#).

Final Examinations

Instructors are expected to utilize the final exam period for a conclusive, meaningful activity. Students are expected to take final exams during the assigned times. Students who have three finals on one day may request a change of examination time from instructors, but all examinations must be administered no later than the final day of the exam period. Students should check their final examination schedule prior to making any end-of-semester travel arrangements; it is not the responsibility or obligation of the instructor to give opportunities for students to take a final examination outside of the scheduled final examination time.

Dean's list

Students who complete at least 12 credits in which grades other than "P" are assigned and earn at least a 3.500 grade point average in a given semester are named to the dean's list for that semester.

Student Classification

First-year standing	1 semester completed
Second-year standing	2-3 semesters completed
Third-year standing	4-5 semesters completed
Fourth-year standing	more than 6 semesters completed

Declaring a major or minor

By the end of the second year, students must file a Declaration of Major/Minor form with the registrar's office to be eligible to register for the third year (5th semester) of study. Students are required to complete the major requirements in effect at the time the student submits the form. Minors must be declared prior to registration for the final semester of enrollment.

Registration**General information**

Students register for courses online several months in advance of each semester and have several opportunities to make changes to their schedules (see below). All new students starting in the fall semester generally register for courses during Summer Orientation and Registration the preceding summer. All returning students who have not made satisfactory arrangements with the student accounts office for payment of all tuition and fees may 1) be ineligible to register for courses and/or 2) have their registration in courses cancelled.

Final official transcripts from all colleges attended need to be received and processed by the registrar's office before students may register for their second term of attendance at Central. A registration hold will be placed on the student's account until all transcripts are received.

Students are personally responsible for registration into and official withdrawal from courses. Class attendance does not constitute registration in a course; likewise, absence from a class – including never attending even one class session — does not constitute official withdrawal from a course. No credit will be awarded for courses in which a student is not properly registered, and no refunds will be given for courses from which students have not officially dropped or withdrawn. Students should refer to Self-Service Student Planning for their official class schedule.

Students who plan on being considered "full-time" (enrolled in at least 12 credits in a given semester) for financial aid, athletics, or any other purpose, must be attentive to the number of credits for which they are officially enrolled. Students enrolled in fewer than 12 credits in any semester will have their financial aid reduced according to state and federal regulations. Student athletes enrolled in fewer than 12 credits will be ineligible for competition in such semesters. It is each student's responsibility to know when they have dropped below full-time status and the ramifications of doing so. The registrar has the right to adjust student schedules during or after the registration period.

Changes in registration

Registration change forms are available from the registrar's office or on my.Central. Policies governing such changes are as follows:

1. Registration changes (adds, drops, withdrawals) must be approved by students' academic advisor and, at times, the course instructor.
2. Full-semester courses dropped during the official drop/add period (typically before the second Friday of classes; see the official academic calendar for drop/add dates) will not appear on the transcript.
3. Courses dropped after the official drop/add period and before the end of the 12th week of the semester will appear on transcripts with a grade of "W" (withdrawn), and no tuition or fee refunds will be made.
4. Withdrawal from any courses after the end of the 12th week of the semester is not permitted and students will receive the grade earned as determined by the instructor.
5. Under unusual circumstances, a student may appeal to the registrar for a waiver of these policies.

For courses that do **not** meet for the entire semester (e.g., 1 credit courses that end at midterm):

1. Students may add or drop through the first week of class. Dropped courses will not result in a transcript notation.
2. Withdrawals after the first week but before 75 percent of the regularly scheduled class sessions have been conducted will be noted with a grade of "W" on the student transcript.

3. Withdrawal after 75 percent of the regularly scheduled class sessions have been conducted is **not** permitted and Students will receive the grade earned as determined by the instructor.

Attendance Policy

Because engagement is integral to learning, Central College expects students to attend all regularly-scheduled classes and laboratories.

Instructors are responsible for clearly stating expectations for student attendance in their course syllabi, including the potential for out-of-class course-related experiences during the term (e.g., evening exams, course excursions, community-based learning).

Students are responsible for consulting the course syllabus and communicating with their instructors regarding any absences. When possible, students should communicate in advance (and as early as possible) about anticipated absences. If a student fails to communicate in advance about an anticipated absence, the instructor is not obligated to provide accommodations to the student because of the absence.

College-sanctioned activities typically are regarded as an excused absence from a class or laboratory. A college-sanctioned activity is an activity that the college has approved for student participation, regardless of whether the college has allocated any resources to support it. A college-sponsored activity is an activity which the college has specifically allocated resources to support. College-sanctioned activities can include (but are not limited to): college-sponsored athletic events; college-sponsored musical and theatrical performances; academic conferences and competitions; and course-related excursions. Questions about whether an activity counts as a college-sanctioned activity should be directed to the Vice President for Academic Affairs (or designee).

Absences due to required, short-term military service constitute excused absences.

Prior to an excused absence, the student should complete all work necessary for the class or laboratory or make alternate arrangements with the instructor. However, in the rare case where there is no means by which the work for the class or laboratory can be completed beforehand or meaningfully made up in some alternate way, the student should discuss this absence with the instructor early enough to provide sufficient time for both parties to consider options. If the student and instructor cannot agree on an appropriate option, then they should consult the coordinator of the conflicting event to seek resolution. Such a coordinator can include (but is not limited to): a faculty member proposing the conflicting activity; a coach of the student's athletic team; or the Athletic Director (or designee). If this consultation does not result in a resolution, then the student and instructor should consult the Vice President for Academic Affairs (or designee) to help facilitate a resolution, after hearing from all parties.

A student absence from a class or laboratory due to illness or due to a personal or family emergency normally should be considered an excused absence. If an instructor questions the legitimacy of such an absence, the instructor should discuss it with the student. If this does not resolve the question, then the instructor should contact the student's class dean for help with this determination.

Policies regarding all other absences are at the discretion of the individual instructor. In the event of an unexcused absence, the instructor is not obligated to provide opportunities for a student to make up course work. Absences due to personal travel prior to or following a mid-semester break (e.g., Thanksgiving or Spring Break) may be considered unexcused absences.

For extended or unforeseen absences (e.g., health conditions, family emergencies, post-season competition), the student is responsible for maintaining contact with their course instructor(s), academic advisor(s), and class dean to identify an appropriate plan of action. If an appropriate plan of action cannot be identified, the associate academic dean (or designee named by the VPAA) may be consulted to facilitate resolution.

Teaching and Learning Expectations on a Residential Campus (May 2021)

Because Central College is a residential campus, **the expectation is that students and faculty will be together in the classroom on campus** unless a significant disruption occurs, and a temporary adjustment is required and announced by the president. We anticipate that Central faculty and students will participate in in-person (*i.e.*, not remote, not recorded classroom) teaching and learning.

Students and staff should contact the appropriate class dean if there is a need for a long-term accommodation (lasting 1 week or longer), and the class dean will contact the Registrar. Long-term accommodations for students must be approved in advance by the Registrar in consultation with the Vice President for Academic Affairs (or designee) and will be communicated to the student's faculty, advisor, and class dean by the Registrar's Office. Each faculty member will then determine what that reasonable accommodation will be for their course.

The Registrar will serve as the point person for all communications to faculty regarding a student's need for a long-term accommodation. Appropriate documentation for the approved accommodation will be held in the Office of Student Support Services.

Faculty will not agree to individual long-term accommodations at the request of a student without notification from the Registrar. Individual long-term accommodations for students that do not involve communication from the Registrar will not be permitted.

This policy does not pertain to short term accommodations for weddings, funerals, important family events, short term illness/injury, or athletic events. These short-term matters should be handled by individual faculty with direct communication from the student.

Leave of Absence

A leave of absence is a period when a student is not enrolled in classes at Central College but typically intends to re-enroll. It is granted to students who need to step away from their current academic experience for the remainder of the semester. This may be to focus more intensely on their physical or mental health (requires the support of a licensed medical or mental health care professional), family emergency, military service, or other specified reason.

Who needs a Leave of Absence?

Students may want to consider a leave of absence if:

- A student's physical or mental health is disrupting their ability to participate in academic and campus life (even with supports and accommodations); they feel they are in crisis or that their level of distress is becoming intolerable; they believe the stress and pressure of college is seriously disrupting their ability to focus on recovery; or an increased level of care is needed.
- A family emergency requires the student step away from their studies for the remainder of the semester.
- A student chooses to enlist in the military and leaves for basic training or is deployed on active duty.
- Other specified reason.

How long is a Leave of Absence?

A leave of absence may be a partial semester or a full semester but may not exceed two consecutive full semesters. Student's who are granted a leave of absence prior to the start of classes or during the official drop/add period will be dropped from their courses without a transcript notation. Students who withdraw after the official drop/add period and before the 12th week of classes will receive a "W" (withdraw) grade on the transcript for each full-semester course they are currently registered. Students who receive financial aid will have the term counted as one of their terms of financial aid used toward the maximum financial aid eligibility.

How do I know if I qualify for a Leave of Absence?

A student seeking a leave of absence for any reason should contact their class dean to initiate a conversation about a leave of absence. The request for a LOA cannot be made after the end of the 12th week of classes. Medical requests will be considered after the 12th week on a case-by-case basis. In no case can a request for a LOA be made after the end of the term. Students seeking a leave of absence for a medical reason should talk with licensed medical provider or mental health care professional to determine if a medical leave of absence is something they would recommend and support with documentation for demonstrated need.

What happens to my student status with a Leave of Absence?

If approved by the associate dean or designee named by the vice-president of academic affairs, the student will stop all courses and be granted grades of "W" in all enrolled courses and have course registration for any subsequent term cancelled if applicable. Students may seek to re-enroll in a subsequent semester by completing the application for re-entry. Students granted a leave of absence will not be permitted to continue living on campus and are required to vacate their residence hall room within 24 hours of signing the withdrawal

paperwork AND must verify completion of move out with Residence Life staff. Students will be charged prorated room and board fees until verification of move out is complete. If move out date verification with Residence Life staff is not completed before 60 percent point in term, student will not be eligible for a refund on room & board.

Students typically spend at least one full semester away from campus, though time away can be determined on a case-by-case basis.

Students are encouraged to consult with the Financial Aid Office to determine if there are other financial implications to their decision to take a leave.

If you would like to proceed with a Leave of Absence or have any additional questions, please contact:

Registrar's Office

registrar@central.edu

641-628-5442

Administrative withdrawal

When a student has missed all classes for 10 consecutive class days, or who after the end of week seven is failing all classes and is neither regularly attending classes or completing labs or assignments, the college will begin the process to administratively withdraw the student from the college. The student will be notified by the registrar via registered campus mail and the student's Central College e-mail account, and a student signature procured. Students who are withdrawn from the college must vacate their campus residences within 48 hours of having been withdrawn. Administrative withdrawal will be transcribed as a withdrawal and considered an unofficial withdrawal for refund purposes. (For refund policy information see "College Costs" page 17.)

A transcript notation will indicate that a student has withdrawn from the institution (e.g., Withdrawn MM/DD/YYYY).

Disciplinary/academic suspension and dismissal

Students may be suspended or dismissed from college at any time during the semester. Students who are suspended or dismissed must vacate their rooms within 24 hours. Students who are suspended or dismissed after the official drop/add period and before the end of the 12th week of class will receive a "W" (withdraw) grade on the transcript for each full-semester course they are currently registered. Students who are suspended or dismissed after the 12th week of the term will receive the grade earned in the course as determined by the instructor. The courses and term for which the student enrolled may be counted for satisfactory academic progress purposes. Students who received financial aid will have the term counted as one of their terms of financial aid used toward the maximum financial aid eligibility. For refund policy information see "College Costs."

A transcript notation will indicate that a student has been suspended or dismissed from the institution (e.g., academic suspension MM/DD/YYYY or disciplinary dismissal MM/DD/YYYY). Students who are suspended from the college and later wish to re-enroll should consult the policies governing re-entry.

Returning from withdrawal or suspension (Re-entry)

A student who has withdrawn (voluntary or medical) or was suspended (academic or disciplinary) from Central prior to graduation may apply for re-entry and, if approved, return to the college. Applications are due no later than one week prior to the first-class day of the semester in which the student wishes to re-enroll. Students who have been away (e.g. withdrawn or suspended) for more than two years must complete the requirements in effect at the time of re-entry. Students approved for re-entry will be required to satisfy all prior financial obligations and to make an enrollment deposit prior to being eligible to register for classes or receive a housing assignment. For more information, contact the registrar (registrar@central.edu) or go to <http://departments.central.edu/registrar/registration/re-entry/>.

Overload

Students who wish to register for more than 18 semester hours of credit will need permission from the registrar unless they are enrolled in one or more of the following overload- exempt courses:

Overload Tuition Exempt (no overload fees apply)

1. Group Ensembles (MUSG courses)
2. Study abroad pre-departure and re-entry courses
3. Central Teachers Academy internships (EDUC 397)
4. Mock Trial (GENR-214)
5. Honors Enrichment courses
6. Senior Honors Thesis courses/projects
7. Honors Seminar (HONR 191 or HONR 391)
8. Private music instruction (MUSL courses)*

**Students will incur the private lesson instructional fee; however, they do not pay per-credit tuition.*

Students will be charged per-credit tuition for each non-exempt semester hour in excess of 18. See Catalog section "College Costs" for more information. The Overload Request form is available from the registrar's office or on my.Central.

Auditing a course

Students may audit courses for no credit with instructor permission and on a space available basis. There are only a few circumstances where an audit may be useful. These include:

- Exploring an area unrelated to your major and the course is outside of your primary interests;
- Reviewing of an area you are already knowledgeable in, or;
- Requiring an extraordinary effort for you to take for a grade along with your other planned courses taken for graduation requirements.

Instructors determine the criteria needed to receive a satisfactory audit grade (AUD). Typically, examinations, labs, papers and homework are not required; however, regular attendance and class participation is expected. Satisfactory audits are recorded on the student's transcript with a grade of "AUD" but are not used in the calculation of a student's grade point average. Unsatisfactory audits are not recorded. Students may not audit directed study, internship, independent study, practicum, co-op, music lessons (private and group), and music ensembles. Audited courses may not be used to satisfy any graduation requirements (e.g. majors, minors, core). Students are not allowed to repeat for letter grade a course they previously audited, and students may not repeat a regular graded course as an audit.

To register for a course as an audit, or to change a course from credit to audit or audit to credit, students must file a Registration Change Form with the registrar's office during the normal registration or add/drop periods. The instructor's signature is required.

Repeating a course

A student is permitted to repeat up to 20 semester hours of credit at Central. All course grades will appear on the transcript but only the most recent grade and credits earned will count toward graduation and in calculation of the student's cumulative grade point average. The following restrictions apply to course repeats:

- Students may not repeat a course via directed study unless the student's first attempt was itself a directed study.
- Students may not audit a course in which they have previously earned an A-F or P grade.
- Students may not receive transfer credit for any course previously completed at Central College.
- Students may not repeat LAS 110 *Intersections*. (See "Failing LAS 110 *Intersections*" policy)

Failing CIV 110

Students who fail *CIV 110* will take an additional EXP course.

Policies and Procedures for Consortia Courses

Central College is a member of the Council of Independent Colleges (CIC) and has access to the CIC Online Course Sharing Consortium (CIC-OCSC), via Acadeum's Course Share technology. There are circumstances that may arise in which a course may be needed during the regular fall or spring term but is not offered. Those circumstances can include, but are not limited to, medical leave (by a faculty or student), students need to quickly retake a course to rebuild their college GPA, or courses offered are sequence for timely graduation. Such cases will be considered individually, initiated by the department chair in consultation with the student's faculty advisor. Courses may be made available during winter term (our winter break), January term or summer.

To distinguish them from our on-campus courses, these courses will be denoted for student enrollment and transcript purposes with "ACM" suffix (e.g., ECON 112ACM Principles of Microeconomics). ACM courses are not considered transfer courses. They are transcribed as Central College courses and counted in the "attempted" and "earned" credit categories for Satisfactory Academic Progress calculations.

The approval process for courses in the consortium follows the [transfer credit procedure](#). Courses are evaluated based on course description and syllabus by the registrar's office as follows:

1. All courses are evaluated in advance by the registrar's office, and determination of credit equivalence is made by the registrar in consultation with disciplinary faculty. Course review may include the evaluation of the course's specific educational goals, academic content, and the level of credit earned.
2. Accepted courses may be used to satisfy course prerequisites, Core requirements or, at the discretion of departmental faculty, major and minor requirements. The registrar determines whether credits fulfill any Core curriculum requirements, in consultation with faculty or Curriculum Approval Committee as needed. Students may not use transfer credits to fulfill CIV 110 Civitas or CIV 210 Civitas requirements.
3. Consortial credits apply toward completion of a Central College degree.
4. Grades and credit earned in consortial courses are included in the calculation of a student's Central College cumulative or major grade point averages.
5. Upon completion of each ACM course, the registrar of the teaching institution submits the final grade in the ACM portal. Central's registrar then posts the final grade on the student's Central College transcript. This practice makes it possible for students to improve their GPA by substituting consortia course grades for D's, F's or W's or continue to make progress towards graduation. [Repeating course procedures](#) will apply.
6. Central College will not intervene in grade dispute cases where a Central College student is dissatisfied with the final grade issued by the teaching institution. Additionally, students are responsible for adhering to course participation and policies of the teaching institution, which includes logging in on the course start date, submitting assignments, securing textbooks, and learning materials and following through on all required action as stated on the syllabus and by the teaching institution.
7. Central College will not intervene in disputes regarding date of drop or with drawl, nor regarding refunds in cases in which the student did not correspond with the teaching institutions per the deadlines for each ACM course.

Consortia Course Enrollment Eligibility

Students must have satisfied the pre-requisites prior to enrolling in a consortial course.

ACM Enrollment Actions

Students must request ACM enrollment actions (add, drop, withdraw) through registrar's office or their academic department chair. After an ACM course request is submitted on behalf of the student, the teaching institution will send one of two email communications to the student's school email address:

1. Denied, which requires finding an alternate course for the student.
2. Approved, which gives the student key information about the course. Watch your email for a message from support@acadeum.com. This will include a welcome letter and instructions for accessing course information. If you have been approved for registration and you DO NOT get this message prior to the course start date, check your spam/junk folder first, then contact support@acadeum.com or registrar@central.edu.

Billing

Students pay the Central College tuition rate per credit hour for the ACM course. Summer tuition rates apply for winter term, January term and summer courses. If a course is taken during the regular fall or spring semester, semester tuition

applies. During the regular semester financial aid may apply. Students who exceed full-time enrollment due to the addition of an ACM course(s) will be charged overload tuition rates as outlined in the Central College tuition and fee schedule and must seek [permission for the overload](#) in advance. Students are responsible for all learning material costs, including textbooks, as determined the teaching institution.

Professional Licensure or Certification Disclosure

This policy is in accordance with federal code amendment [34 CFR 668.43\(a\)\(5\)\(v\)](#) effective as of July 1, 2020.

Professional Licensure or Certification (PLC) pre-education requirements

The licensure boards in each state are responsible for establishing the requirements for licensure/certification for their state. The curriculum for programs customarily leading to licensure/certification at Central College have been designed to meet the licensure/certification requirements in Iowa and to prepare students to apply for licensure exams in the State of Iowa. Students who intend to return or move to any state other than Iowa need to review the professional licensure disclosures pertaining to their program and consult with the appropriate state professional licensing board. These boards make the ultimate decision as to whether an individual is eligible to sit for licensure based on the rules and regulations in place at the time the individual submits their application for licensure.

Completion of a Central College degree program does not guarantee employment in any profession. States vary in what professions they require to be licensed and how licensure functions. Some states require an individual to graduate from an approved or accredited program. Others require an individual to “meet [the] certification requirements of a national organization”. A specific amount of training can also be required as well as passage of an exam based on a state requisite exam score. Often, licensed professionals must complete continuing education on an annual basis and that requirement lasts the duration of a health professional’s career.¹ Prior to enrollment in a specific program, students are responsible for confirming all education, testing, and licensing requirements in their chosen field.

Documentation describing these accreditations and certifications are available for review upon request.

Below are the programs that customarily lead to *licensure* at Central College.

- **Accounting:** Central College offers a Bachelor of Science in Accounting. This program is designed to help students meet the educational requirements for CPA examination and licensure in Iowa. [Click here](#) to see additional requirements to obtain a CPA license in Iowa and other jurisdictions. All states and territories require 150 credit hours for licensure; and [a B.S. in Accounting does meet](#) the educational requirements for licensure as a CPA.
- **Education:** Central College offers a number of programs to prepare students for an Iowa teacher license and additional endorsements. Recommendations by a certifying official are for Iowa licenses and endorsements and are based on the licensure requirements of the Iowa Board of Education Examiners. [Click here to obtain the full list of requirements for certification and support for the state of Iowa.](#) A link to other states can be found [here](#).

Below are the programs that customarily lead to *certification* at Central College.

- **Actuarial Science:** Central College offers a Bachelor of Arts in Actuarial Science. This program is designed to help students prepare for the first 2-3 preliminary examinations required to achieve credentials with a professional actuarial organization. Students completing the program may also fulfill all educational requirements for the professional credential. More information on the exam process can be found [here](#).
- **Biochemistry:** The Biochemistry program is approved by the Committee on Professional Training of the American Chemical Society (ACS) to certify graduating students in biochemistry who complete a bachelor’s degree meeting the ACS guidelines.
- **Chemistry:** The Chemistry program is approved by the Committee on Professional Training of the American Chemical Society (ACS) to certify graduating students in chemistry who complete a bachelor’s degree meeting the ACS guidelines.

- **Strength and Conditioning:** Central College offers a Bachelor of Arts in Strength and Conditioning. This program is designed to prepare students for the National Strength and Conditioning Association certification exam. The program is accredited by the Council on Accreditation of Strength and Condition Education (CASCE).

Programs Not Listed

If you have questions regarding any program not listed on the Professional Licensure page, please contact the Program Director where the program resides.

International Students

Prior to enrolling in any program at Central College, prospective students living and/or working outside of the United States should confirm with the appropriate certifying agency whether successful completion of any degree program at Central will meet the credentialing requirements for employment or for advanced/specialized educational programs of the country in which they intend to seek employment.

Students' Responsibility

Students should review the specific academic requirements for the program in which they are enrolling, including those related to practicum or internship as well as pre-qualifications for licensure, such as the need for a criminal background check. We highly recommend that students contact the applicable licensure board(s) in their state of residence or in the state where they intend to obtain a license before beginning an academic program that results in licensure and prior to beginning any internship or practicum. Many licensure boards have additional requirements beyond successful degree completion to obtain a license.

In addition, be advised that state laws, regulations, and policies may change at any time. Changes in requirements can impact the program's ability to meet educational requirements for licensure. It is the responsibility of the student completing the licensure program to check with the licensing board(s) in their state of residence or in the state in which they intend to obtain a license for the most recent information and requirements. Central College shall not be held liable if the student is unable to qualify for licensure or certification in any jurisdiction or cannot obtain a practicum/internship location.

General Disclosures

This information will be reviewed and update annually; however, requirements are subject to change. All prospective and current students are responsible for contacting the appropriate agency or board in their jurisdiction to confirm licensing requirements and program compatibility prior to enrolling in an academic program.

Direct Disclosures

All direct disclosures must be made directed to the individual student in writing, which may include email or other electronic communication. Central College is required to issue direct disclosures to individual students prior to enrollment if the institution determines that a programs curriculum does not meet the educational requirements for licensure in the student's location.

Central College is required to issue direct disclosures to students who are currently enrolled if it determines that a program no longer meets the educational requirements for licensure in the student's jurisdiction. These disclosures must occur within 14 days of making this determination, which may occur because:

- The jurisdictions' requirements have changed; or
- The program's curriculum has changed; or
- The student's location has changed.

¹ Institute of Medicine (US) Committee on Planning a Continuing Health Professional Education Institute. Redesigning Continuing Education in the Health Professions. Washington (DC): National Academies Press (US); 2010. 1, Continuing Professional Development: Building and Sustaining a Quality Workforce. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK219809/>

Professional Licensure

If you are considering an academic program that leads to a professional license in your state, it is highly recommended that you first seek guidance from the appropriate licensing agency in your home state *before* beginning the academic program located outside of your state.

It is the **student's responsibility** to contact the appropriate licensing board in his/her home state to confirm whether our program, at Central, will meet the requirements for licensure in that state.

Transfer of credit

All transfer credit must be earned at a regionally accredited college or university with a grade of "C" or better. A grade of "C-" will not be counted as transfer credit. Work to be considered for transfer credit must be submitted on an official transcript mailed directly to Central College from the transferring institution, sent as an official electronic transcript from the transferring institution, or delivered in a sealed envelope with the signature or the transferring institution's registrar across the seal. Students transferring to Central must provide official transcripts for all institutions previously attended, regardless of the number of credits being transferred.

1. All official transcripts are evaluated for admitted and matriculated students by the registrar's office and determination of transfer credit is made by the registrar in consultation with the appropriate department chair. Course review may include the evaluation of the course's specific educational goals, academic content, and the level of credit earned. Vocational, remedial, continuing education and military credits are not transferrable.
2. Accepted credits may be used to satisfy course prerequisites, Core requirements or, at the discretion of departmental faculty, major and minor requirements. The registrar determines whether credits fulfill any Core curriculum requirements, in consultation with faculty as needed. Students may not use transfer credits to fulfill LAS 410 *Liberal Arts Seminar* requirements.
3. A maximum of 60 semester hours of transfer credit (including a maximum of 24 semester hours from AP, IB, PSEO and dual enrollment) may be applied toward completion of a Central College degree.
4. Grades and credit earned in transfer courses are not included in the calculation of a student's Central College cumulative or major grade point averages.
5. Students transferring to Central should consult with the chair of their prospective major/minor to determine the number of Central College courses that will be required to complete the major or minor.
6. Current Central College students who wish to take a course(s) at another institution and transfer the credit back to Central must submit a Request for Transfer Credit Pre-Approval form to the registrar's office prior to taking the course. Students may not repeat a Central course at any other college or university.

Pre-College Credit, Advanced Placement and International Baccalaureate

A maximum of 24 semester hours of credit for Advanced Placement (AP), International Baccalaureate (IB), Post-Secondary Enrollment Option (PSEO), and dual-enrollment programs will be awarded. Pre-college credit is considered transfer credit and is included in the 60 semester hour total transfer limit. A list of approved course equivalencies is available from the registrar's office and on the admission page of the college's website.

Credit for Advanced Placement (AP)

Students who earn a score of 4 or better on AP exams will be granted a minimum of three semester hours of credit. All AP scores must be sent directly to Central College from the College Board (CEEB 6087).

Credit for International Baccalaureate (IB)

Students who earn a score of 4 or better on IB higher-level exams (subsidiary-level exams are not accepted) will be granted a minimum of three semester hours of credit for each subject area. International Baccalaureate scores must be sent directly to Central College from International Baccalaureate.

Credit for dual enrollment or PSEO

All dual enrollment or PSEO credit must be earned at a regionally accredited college or university with a grade of "C" or better. Grades and credit earned in pre-college courses are not included in the calculation of a student's Central College cumulative or major grade point average. Dual enrollment and PSEO grades must be submitted on an official transcript and mailed directly to Central College from the institution of record or delivered in a sealed envelope with the registrar's signature across the seal to be considered for credit.

Credit by proficiency

Central College awards credit by proficiency in the areas of foreign languages, mathematics and computer science. Credit is awarded based on enrollment in and successful completion (as defined below) of upper-level courses and predicated on sufficient scores on appropriate placement assessments. Note: Students are not charged for any awarded credit by proficiency.

Credit by proficiency in foreign languages

Credit by proficiency in foreign languages will be awarded as follows:

1. Students who place at the 122-level and subsequently complete a 122-level language course with a grade of "C" or better will be awarded 2 semester hours of 100-level language proficiency credit.
2. Students who place at the 221-level and subsequently complete a 221-level language course with a grade of "C" or better will be awarded 4 semester hours of 100-level language proficiency credit.
3. Students who place at the 222-level and subsequently complete a 222-level language course with a grade of "C" or better will be awarded 4 semester hours of 100-level language proficiency credit and 2 semester hours of 200-level language proficiency credit, for a total of 6 semester hours.
4. Students who place at the 321-level and subsequently complete a 321-level language course with a grade of "C" or better will be awarded 4 semester hours of 100-level and 4 semester hours of 200-level language proficiency credit, for a total of 8 semester hours of proficiency credit.
5. Students who place at the 322-level and subsequently complete a 322-level language course with a grade of "C" or better will be awarded 4 semester hours of 100-level, 4 semester hours of 200-level, and 2 semester hours of 300-level language proficiency credit, for a total of 10 semester hours of proficiency credit.
6. Students who place beyond the 322-level and subsequently complete an upper-level literature or civilization course with a grade of "C" or better will be awarded 4 semester hours of 100-level, 4 semester hours of 200-level, and 4 semester hours of 300-level language proficiency credit, for a total of 12 semester hours of proficiency credit.

Note: Language-based credit by proficiency may be applied to the foreign language major or minor at the appropriate level.

Credit by proficiency in mathematics

Credit by proficiency in mathematics will be awarded as follows:

1. Students who place into *MATH 132 Calculus II*, and complete that course with a grade of "C" or better will be awarded 4 semester hours of proficiency credit for *MATH 131 Calculus I*.
2. Students who place into *MATH 231 Multivariable Calculus*, and complete that course with a grade of "C" or better will be awarded 4 semester hours of proficiency credit for *MATH 132 Calculus II*, and 4 semester hours of proficiency credit for *MATH 131 Calculus I*.

Credit by proficiency in computer science

Students who place into *COSC 130 Data Structures* and complete that course with a grade of "C" or better will be awarded 3 semester hours of proficiency credit for *COSC 110 Introduction to Computer Science*.

Academic Warning, Probation and Suspension

Central College admits students who have the background, desire and ability to be successful at Central and make adequate progress toward the degree. To graduate from Central College, a student must earn 120 semester hours of credit with a minimum grade point average of 2.000 overall and in their declared major. Full-time students are expected to complete the requirements for graduation within four years (eight semesters) by completing an average of 30 credits each academic year. The goal of the college is to ensure that students have the resources they need to succeed academically and to support the student's acquisition of skills of mind, body, and spirit. The Office of the Class Deans and other resources on campus are designed to help students succeed academically, while at the same time helping them fulfill their interests in outside activities. It is with this ethos in mind that Central has developed this system of academic guidance for students.

A probation and dismissal committee shall be appointed by the VPAA. This group will include two appointees and the registrar. The committee, in consultation with the class deans, determines which students are to be warned, placed on probation, continued on probation, suspended or, as a last resort, dismissed, if they are not progressing at the rates indicated below*:

	Semester 1 GPA*	Semester 2 GPA**
First Year	1.700	1.800
Second Year	1.900	2.000
Third Year	2.000	2.000
Fourth Year	2.000	2.000

* First- and second-year students are expected to achieve a minimum cumulative and major GPA that coincides with the number of semesters in college.

Academic warning

Students who meet the above minimum standards may receive a written notice of warning if one or more of the following is observed:

- A cumulative GPA less than 2.000, but greater than the minimum required for their classification;
- A semester GPA below 2.000, even though the cumulative GPA is above 2.000;
- Fewer than 12 semester hours of credit earned in any semester (summer excluded); or
- Earning credits at a pace that will put them more than one full semester behind a projected four-year graduation.

Students who receive an academic warning may choose to receive academic mentoring from a class dean to identify solutions to problems the student may be experiencing while at Central, or any other needs moving forward. Students who receive an academic warning for two consecutive semesters may be placed on academic probation.

Academic probation

When a student does not meet the cumulative or major grade point average expected, and/or falls more than one semester behind a projected four-year graduation, the student will be placed on academic probation for the next regular semester of enrollment, and the advisor will be notified. Students placed on academic probation should use the semester as an opportunity to focus on academic improvement. Students will meet with their class dean regularly to clarify goals, identify campus resources to help them succeed, develop additional mentoring relationships with faculty, and enhance their academic skills. Students on academic probation are ineligible to participate in many co-curricular activities, including the following:

- NCAA Division III athletics practices, competitions, and related activities;
- Dance or cheer team;
- Music ensembles;
- Theatre productions, including musicals;
- Student government leadership;
- Study abroad or domestic semester away programs;
- Fraternity or sorority pledging;
- Other college-sponsored co-curricular activities.

If a non-athletic activity is required for the probationary student's major, exceptions to this list *may* be granted with the approval of the student's class dean and academic advisor. If there is a question as to the appropriateness of an activity, students should consult with their class dean.

Students who improve their cumulative GPA, major GPA, and total credits earned to the minimum level expected during the fall or spring semester will be removed from academic probation; students who make such improvement after a summer or winter session will be removed from academic probation but will be required to meet with their class dean during the fall or spring semester. Students who are removed from academic probation as a result of summer or winter performance but fail to attend subsequent meetings with their class dean may be immediately returned to academic probation.

Students who make a noted improvement, but do not achieve the minimum levels outlined above, will be continued on academic probation until their grade point average (cumulative and major) and completed semester hours are at the level(s) expected for their classification. Students on academic probation who demonstrate little, or no improvement may be suspended or dismissed.

Students on academic probation for more than one semester may have their financial aid reduced. See the catalog section on [Financial Aid Satisfactory Academic Progress](#) for more information.

Academic suspension

Students who have not benefitted from academic probation or who demonstrate an abrupt decline in academic progress will be suspended. Suspension is deemed appropriate when it is apparent that the student needs a break from studies at Central to prioritize their academic goals and ultimately return and achieve a Central degree. Students are typically suspended for a minimum of two semesters, although the associate academic dean (or designee named by the VPAA) may, with discretion, reduce the period of suspension to one term. Students who have been suspended are not eligible to enroll in summer classes at Central College until after being approved for re-entry. A transcript notation will indicate that a student has been suspended for academic reasons (e.g., academic suspension MM/DD/YYYY).

Students wishing to return to Central College following the suspension period must apply for re-entry by contacting the associate academic dean (or designee named by the VPAA) in writing. The re-entry request will be evaluated in light of interim experiences that reflect increased readiness to succeed academically. Students have a greater likelihood of being approved for re-entry if they show evidence of growth; this can be accomplished by successfully completing courses at another accredited institution, securing counseling to resolve personal issues, engaging in work opportunities that demonstrate success, or similar opportunities.

Academic dismissal

Students who consistently fail to meet satisfactory academic progress standards will be dismissed from the college. Typically, students will be placed on academic probation or suspension prior to dismissal, although a particularly unsuccessful semester may result in immediate dismissal. Students academically dismissed are not eligible to re-enroll at Central. A transcript notation will indicate that a student has been dismissed for academic reasons (e.g., academic dismissal MM/DD/YYYY).

Appeal of academic suspension or dismissal

Students who have been suspended or dismissed for academic reasons may appeal in writing to the associate academic dean (or designee named by the VPAA). Permission to continue may be granted if there is evidence previously unavailable that identifies factors that contributed to the unsuccessful semester. Emotional appeals will not be considered. Students who successfully appeal a suspension or dismissal decision will be placed on academic probation. If the appeal is denied, the suspended student may apply for re-entry after their period of suspension has ended.

Mitigating circumstances

Central College may set aside the minimum academic standards for an individual student if it is determined that an unusual situation affected the student's progress. The registrar and associate academic dean (or designee named by the VPAA) will make this determination on behalf of the student. Mitigating circumstances may include, but are not limited to, a documented serious/prolonged student illness or injury, or the death of a close relative.

Amended student records

Satisfactory academic progress is based on the student's official academic records at the time of the progress review. If a record is amended to reflect appropriate changes (e.g., an incomplete "I" grade is replaced by a standard letter grade), the student's academic status may be reassessed, and, accordingly, the student's academic standing may be modified. Any changes to a student's academic standing based on the amended student record will be effective immediately.

Academic Integrity

The mission statement of Central College charges us to "promote the sensitivity to and appreciation of values essential for students to become effective citizens" at the local, national and international levels. These values include mutual respect and justice. Mutual respect for our colleagues and ourselves requires that we perform our work with integrity and personal responsibility. Justice requires not only adherence to a process that upholds Central College's standards of academic integrity, but also the creation of an atmosphere of intellectual safety where individuals know their work is secure from being copied by others or abused in any way. An academic community with a high degree of integrity is essential if Central College is to succeed in its mission and sustain an academic center whose scholarship and graduates are valued.

Integrity in academic performance is about much more than grades earned; it is about how individual members of the academic community have earned their grades. Because students are responsible for and accountable to upholding these standards of integrity themselves, this guide is provided as a resource.

Academic Honesty

A key component of academic integrity involves taking on the responsibility of being honest in the production of scholarly work. Academic honesty requires that students do not plagiarize, engage in inappropriate or unauthorized collaborations, cheat, aid others in being academically dishonest, or engage in other activities that are dishonest such as misusing technology or other college resources. Each of these violations of academic honesty threatens the overall integrity of Central College, and all members of its academic community. Thus, these violations cannot and will not be tolerated.

Students should avoid:

- Plagiarism and/or misuse of ideas from other sources:
 - Deliberately representing the work of someone else as their own work. This can include:
 - Using the ideas, text, formulas, images, or other materials produced by someone else and not acknowledging them as the source; or
 - Cutting and pasting the work of others into their assignments without acknowledging the source of this material. This includes material taken from the web or Internet as well as from books, journals, and mass media.
 - Failing to provide proper and complete identification of sources for material incorporated into their own work whether text or graphics. This can include:
 - Not including proper within text citations and/or proper footnotes or endnotes, or
 - Not including a full citation on the reference page for each and all sources used in producing your work.
 - Unauthorized collaborations:
 - Working in teams or groups without the instructor's knowledge or permission.
 - Turning in the same or very similar paper for multiple assignments without the knowledge and permission of each instructor involved.
- Cheating. This can take many forms, including:
 - Copying homework or test answers/responses from other students and turning it in as their own work;
 - Using personal electronic devices (e.g., cell phones, calculators), without the instructor's permission to gain an advantage on an exam or course assignment;
 - Using unauthorized materials on an exam or assignment;
 - Presenting others' work as their own;
 - Obtaining work or unauthorized assistance from another student;
 - Obtaining work or unauthorized assistance from another source ; or
 - Failing to report miscalculations in grading.

- Facilitating of dishonest academic activity, such as:
 - Using technology (e.g., cell phones, the Internet) to assist another student in gaining an illicit advantage on an exam or course assignment without the instructor's permission;
 - Doing work for or providing work to another student who misrepresents this work as being their own;
 - Assisting another student to earn a grade that is not by that student's own efforts;
 - Failing to report cheating or other dishonest acts by others;
 - Allowing others to view their work during exams or assignments, including leaving materials on a public access hard drive or other media;
- Improper use of technology, such as:
 - Using technology in ways that violate copyrights.
 - Downloading copyrighted material from the Internet to avoid purchasing of the same material, i.e., music songs or video material.
 - Cutting and pasting material from the Internet into your own work without proper acknowledgement of the source(s).
 - Sharing electronic files of copyrighted material with others and not having permission from the copyright holder.
- Falsification of credentials or grades, including:
 - Presenting false credentials.
 - Altering or forging official university documents and/or files.

Responsibilities for maintaining standards of academic integrity.

Each member of the Central College community is responsible and accountable for maintaining these standards of academic honesty to maintain the integrity of the college and the degrees it confers.

Instructors are expected to:

- Model academic integrity in their own work and in the classroom;
- Provide clear explanations in course syllabi of general and course-specific policies regarding academic integrity and the consequences for violating those policies, and discuss these policies in class;
- Create an environment conducive to rigorous, honest inquiry and learning;
- Monitor academic projects and exams to ensure that the work is the student's own;
- Report and act on any suspected dishonesty in a timely fashion; and
- Maintain confidentiality regarding cases of suspected dishonesty.

Students are expected to:

- Approach their work ethically and honestly; submit only their own work, and properly credit the work of others;
- Become familiar with college policies;
- Ask for clarification of general or course-specific guidelines regarding academic integrity; and
- Actively discourage and avoid facilitating other students' acts of dishonesty.

Administrators are expected to:

- Ensure that policies governing incidents of reported dishonesty are followed and
- Maintain fairness in the disposition of sanctions.

Procedures for violations of academic standards of integrity

In a case of perceived academic dishonesty, the instructor will collect evidence documenting the violation and arrange to meet with the student to discuss the incident as soon as possible. When a student is observed cheating on a test, the instructor will take custody of the evidence and confront the student as soon as possible.

The instructor of the course will determine the course penalty in consultation with their department chair (or senior departmental colleague). Depending on the nature of the offense, the penalty in the course may take the form of additional work or reassignment, failing the project or test, or failing the course.

For every discovered integrity violation, instructors will file an academic integrity violation report with an academic associate dean (or designee named by the VPAA) along with copies of evidence collected. The report will include a description of the offense, the action taken by the instructor and confirmation that a department chair (or senior colleague) was consulted in this process.

After review by an academic associate dean (or designee named by the VPAA), an institutional sanction may be imposed. Students will receive a letter restating the course penalty and, if applicable, the institution's sanction or warning, and a copy will be placed in the student's file. Records of academic integrity violations will be kept in the academic associate dean's office permanently. For a first offense, a student will typically receive a letter of warning. Repeated offenses may be grounds for suspension or dismissal from Central College. Serious violations may result in dismissal.

Students who wish to appeal the penalty imposed by the faculty member and/or the institutional sanction must send a letter to the vice president for academic affairs (VPAA) and dean of the faculty (or designee). All appeals should be submitted within two weeks of being notified of a decision.

Those involved with cases of academic integrity violations will maintain strict confidentiality and follow the provisions of the Family Education Rights and Privacy Act as it applies to the release of information in student records.

Information on academic integrity

Further information about plagiarism and other violations of academic integrity is available on the Geisler Library home page under the heading "Copyright and Academic Integrity."

ACADEMIC PROGRAMS

The academic component of Central College is administered through the Office of Academic Affairs. The faculty administer the curriculum through a structure of nine academic departments. The academic departments are: Visual and Performing Arts; Economics, Accounting and Management; Kinesiology; Education; Analytical and Physical Science; Behavioral Sciences; History, Anthropology, Religious Studies, and Philosophy; Language, Literature, and Communication; and Natural Sciences

Majors

A fundamental graduation requirement for all students is the completion of an academic major with a GPA of at least 2.000 in all courses applied toward the major. By the end of their 4th semester, students must file a Declaration of Major form with the registrar's office to be eligible to register for the third year (5th semester) of study. Students are required to complete the major requirements in effect at the time the student submits the form to the registrar.

Note: For students completing an interdisciplinary major, no more than 60 semester hours of credit earned in the major discipline may be applied toward the total semester hours of credit required for graduation.

Accounting, BA or BS	English	Natural Science
Actuarial Science	Environmental & Sustainability	Philosophy
Anthropology (Cultural)#	Studies	Physics
Art	French & Francophone Studies#	Political Science
Biochemistry, BA or BS	German Studies#	Psychology
Biology	History	Religious Studies
Business Management	Information Systems	Self- Designed
Chemistry, BA or BS	International & Global Studies#	Social Science
Communication Studies	Kinesiology	Sociology
Computer Science	Mathematics	Spanish
Economics	Music	Strength & Conditioning
Elementary Education	Music Education	
Engineering, BS	Musical Theatre	

Major declarations for Anthropology, French & Francophone Studies, German Studies and International & Global Studies are not available to students who matriculate during or after Fall 2021.

Pre-Professional Programs - The following programs are supported by the academic structure. While not specific majors, faculty will work with students in identifying coursework appropriate for their professional aspirations.

Pre-health
Pre-law
Pre-ministry

Minors

While not a graduation requirement, academic minors are programs that require in-depth study in a discipline without the breadth of a full major and are also offered. These can be taken in conjunction with one or more majors. To earn a minor the student must attain a GPA of at least 2.000 in all courses applied toward the minor. Additional policies governing specific minors are outlined in the sections addressing the program's majors. As with majors, minors must be officially declared by students. Students must submit a Declaration of Major/Minor form to the registrar's office prior to registration for the final semester of enrollment.

Accounting	Entrepreneurship	Not-For-Profit Management
Anthropology (Cultural)	Environmental Studies	Philosophy
Art	French & Francophone Studies	Physics
Art History	German Studies	Political Science
Biology	Global Health	Psychology
Business Management	Global Sustainability	Religious Studies
Chemistry	History	Self-Designed Studies
Communication Studies	International and Global Studies	Social Justice Studies
Computer Science	Kinesiology	Sociology
Data Science	Mathematics	Spanish
Economics	Music	Writing
English	Musical Theatre	

Teaching endorsements

Teaching endorsements at the elementary and secondary school levels are offered through Central's education department. Note that teaching endorsements and academic minors are not the same. Contact the licensure officer in the education department for information regarding teaching endorsements.

Cancellation of courses

The college reserves the right to cancel courses in which enrollment is low or as a result of staffing changes.

Curriculum changes

The college reserves the right to modify its academic programs, courses, and requirements. When changes are required, students will be informed promptly. Moreover, the college will make serious efforts to permit students to continue in their declared academic programs, although that cannot be guaranteed. When it is not possible for a student to complete the declared academic program at Central College, the college will assist the student in choosing an alternate academic program at Central and/or in transferring to another institution where the desired program is offered.

Course numbering/coding system

Course levels

Courses are numbered according to the level of difficulty at which they are taught. Course levels are:

100-199	Introductory-level courses
200-299	Intermediate-level courses
300-499	Advanced-level courses

Special course numbers

Some course numbers designate certain kinds of courses, regardless of level or discipline. These special course numbers are as follows:

x00-x09 Courses that do not count toward a major in the specific discipline

x83-x84 Field Experience or Service-Learning Module

An off-campus experience supervised by a faculty member designed to give students an opportunity to apply principles learned in academic course work in a professional/vocational setting. See *Special Programs* for more information about the Service-Learning Module option. (XXXX-283/XXXX-383)

x85-x89 Seminar

Seminars are special topics courses designed for small, highly specific groups of students (i.e., students with a certain major) in which the students are actively involved in all aspects of the course.

x90 Topics

Experimental or “one-time only” courses. The “Topics” designation enables faculty to offer timely courses of special interest to students.

x91 Topics (Honors Level)

Experimental or “one-time only” courses specifically designed for students admitted to Central’s Honors Program. The “Topics” designation enables faculty to offer timely courses of special interest to students.

x92-x95 Practicum

An on-campus, unpaid work experience, directly supervised by a Central faculty member, designed to give students an opportunity to apply principles learned in academic course work. Graded on a pass/no credit basis. Credit is arranged but not to exceed 3 credits without permission of the associate dean of academic affairs. Examples include peer instructors or course assistants.

x96 Co-Op

A full-time work experience, carrying variable college credit, in the area of the major. The co-op is monitored by Central faculty to meet appropriate academic and professional goals. Generally, enrollment in a co-op precludes enrollment in more than 3 credits of other course work during the co-op semester.

x97 Internship

Academic internships provide an opportunity to connect learning to life. Structured as supervised learning experiences in a practical work setting, internships are directed by a professional in the field and supervised by a faculty member in a related discipline. Internships can be done during the academic year, typically replacing a standard course (1-6 credits), or in the summer as a more intensive experience. Alternatively, students can participate in one of Central College’s internship-focused off campus programs for up to 12 hours of credit. Internships are graded on a pass/no credit basis and are recorded on students’ transcripts. For more information, please see “Internships” in the current catalog or contact the center for community-based learning.

x98 Research

Supervised advanced-level research directed by faculty members. 1-3 credits

x99 Independent Study

Students work one-on-one with a professor on an agreed upon topic not addressed as such elsewhere in the Central curriculum. 1-3 credits

Note: As distinguished from Independent Study courses, directed study courses are those in which a student, working one-on-one with a professor, takes a standard, cataloged course. Directed Study courses are identical in content and rigor to their regularly offered versions.

Additional course codes

Letters following the course descriptions in the catalog provide additional information about the courses, as follows:

For students matriculating in the fall of 2023:

- CTN Courses that meet the citizenship Core requirement
- EXP Courses that meet the Exploration Core requirement
- WOC Course that meet the Written and Oral requirement

The course descriptions below apply to student matriculating as new first-year students prior to fall 2023 and some transfer students entering in the fall of 2023:

- ART Courses that meet the arts Core requirement
- HP Courses that meet the historical perspective Core requirement
- LP Courses that meet the literature and philosophy Core requirement
- MR Courses that meet the mathematical reasoning Core requirement
- NS Courses that meet the natural science Core requirement
- REL Courses that meet the religion Core requirement
- SB Courses the meet the social and behavioral Core requirement
- GS Courses that meet the global sustainability Core requirement
- GPC Courses that meet the global perspective: intercultural Core requirement
- GPN Courses that meet the global perspective: international Core requirement
- WRT Courses that have been approved to meet the writing intensive Core requirement. See the online searchable schedule for the most up-to-date information on which specific sections contain the WRT designation.

ACCOUNTING, BACHELOR OF ARTS

Faculty

Maggie Schlerman (chair), Graham Lemke, Ann McDonald, Tuan Nguyen, George Nwaogu, Julie Summers

Statement of philosophy

Central's accounting curriculum begins with a solid foundation in financial and managerial accounting rooted in the theoretical bases of economics and other liberal arts, including ethics, communication, and data analysis. In upper-level courses, students grow through coverage of a variety of theoretical and applied financial accounting topics, as well as cost, tax, systems and auditing. Technology is used both within and outside the classroom as learning and professional productivity tools, emphasizing the use and preparation of spreadsheets and systems for accounting applications. Small classes facilitate interactive learning processes. The accounting seminar provides opportunities for students to polish their research and presentation skills.

The program prepares students professionally for careers in public, private, government and not-for-profit accounting. Students are encouraged to study abroad to enhance their development as global citizens, or with Central's Chicago and Washington, D.C. internship programs, and to become active in various student educational and/or service organizations and other co-curricular activities.

As demonstrated by recent success, Central's accounting graduates are well qualified for national standardized professional exams such as the Certified Public Accountant (CPA) and the Certified Management Accountant (CMA), or to enter graduate or professional programs. Students can choose to complete the 150 semester hours required by most states, and of other certificate-issuing bodies at Central or pursue a graduate degree.

Study abroad opportunities

Accounting majors who intend to participate in the study abroad program should discuss options with their faculty advisors early in their college careers.

Accounting Major Requirements (54-55 credits)

Note: The accounting major may not be combined with the information systems major—accounting option.

1. Complete all of the following:

ECON 112	Principles of Microeconomics (3)
ECON 113	Principles of Macroeconomics (3)
BMGT 311	Principles of Management (3)
ACCT 241	Introduction to Financial Accounting (3)
ACCT 242	Introduction to Management Accounting (3)
ACCT 321	Data Analytics for Accounting (3)
ACCT 341	Intermediate Financial Accounting I (3)
ACCT 342	Intermediate Financial Accounting II (4)
ACCT 343	Advanced Management Accounting (3)
ACCT 344	Principles of Taxation (3)
ACCT 347	Accounting Information Systems (3)
ACCT 348	Principles of Auditing (3)
ACCT 485	Accounting Research Seminar (1)

2. Complete one of the following

MATH 105	Introduction to Statistics (4)
MATH 215	Applied Statistics (4)

3. Complete one of the following

COSC 109	Introduction to Information Management (3)
COSC 110	Introduction to Computer Science (3)

4. Complete 3 elective ACCT credits at the 400- level. ACCT x96 Co-op, ACCT x97 Internship, or ACCT x83 Field Experience n Accounting does not count toward an Accounting major.

5. **Complete one ethics-related course from the philosophy/religion department; consult an accounting faculty member for a list of acceptable courses.**
6. **Complete one of the following:**
 - BMGT 211 Business Writing and Speaking (3)
 - COMM 160 Communication in Everyday Life (3)
 - COMM 270 Public Speaking (4)
 - COMM 272 Oral Communication in a Professional Context (3)
 - THEA 150 Acting (3)

A note about the CPA exam

Students who wish to take the CPA exam in Iowa are advised to also take ACCT 321, BMGT 231, and BMGT 261. Other students should consult the specific requirements of the state in which they intend to take the exam. Consult with a member of the accounting faculty concerning requirements of other national exams.

Accounting Minor Requirements (18 credit minimum)

1. **Complete all of the following:**
 - ACCT 241 Introduction to Financial Accounting (3)
 - ACCT 242 Introduction to Management Accounting (3)
2. **Complete one of the following:**
 - COSC 109 Introduction to Information Management (3)
 - COSC 110 Introduction to Computer Science (3)
3. **Complete a minimum of 9 credits 300-level or higher in ACCT.**

ACCT x96 Co-op, ACCT x97 Internship, or ACCT x83 Field Experience in Accounting, does not count toward an Accounting minor.

ACCOUNTING, BACHELOR OF SCIENCE

Faculty

Maggie Schlerman (chair), Graham Lemke, Ann McDonald, Tuan Nguyen, George Nwaogu, Julie Summers

Statement of philosophy

Central College's Bachelor of Science in accounting is an in-depth professional program focused on applied coursework in accounting and data analysis. The Bachelor of Science degree is ideal for students who intend to pursue certification and/or licensure in the accounting field. Coursework encompasses theoretical and applied financial accounting topics covered on professional certification examinations, including cost, tax, systems and auditing. Computers are learning and professional productivity tools, emphasizing the use and preparation of spreadsheets and systems for accounting applications. Small classes facilitate interactive learning processes. The accounting seminar provides opportunities for students to polish their research and presentation skills. The program prepares students professionally for careers in public, private, government and not-for-profit accounting.

Students are encouraged to study abroad to enhance their development as global citizens, or with Central's Chicago and Washington, D.C. internship programs, and to become active in various student educational and/or service organizations and other co-curricular activities.

Central's Bachelor of Science in accounting is designed to meet Certified Public Accountant (CPA) licensure requirements in the state of Iowa. Other students should consult the specific requirements of the state in which they intend to take the exam. Consult with a member of the accounting faculty concerning requirements of other national exams.

Study abroad opportunities

Accounting majors who intend to participate in the study abroad program should discuss options with their faculty advisors early in their college careers.

Accounting Major Requirements, BS (61-63 credits)

Note: The accounting major may not be combined with the information systems major–accounting option.

1. Complete all of the following, in addition to all the requirements for the Bachelor of Arts in Accounting:

ECON 381 Research Methods in Economics (4)

6 credits of 400- level accounting electives. Acct x96 Co-op, ACCT x97 Internship, or ACCT x83 Field Experience in Accounting, does not count toward an Accounting major.

Complete a total of 150 semester hours of credit

ACTUARIAL SCIENCE

Faculty

Graham Lemke and Mark Mills (co-directors), Russ Goodman, Tom Linton, Tuan Nguyen, George Nwaogu, Maggie Schlerman, Wendy Weber

Statement of philosophy

The actuarial science major is specifically designed to prepare students for a career as an actuary. However, combined with the Central liberal arts education, students completing this major have a broad foundation that will prepare them for many different business-oriented careers.

Because an actuary must have both mathematical/technical skills and more general business skills, the major combines components from mathematics and business. Students completing the actuarial science major will have a strong foundation in the material for the actuarial industry's first two preliminary professional exams which cover calculus-based probability and financial mathematics. Ideally, students will have passed at least these two exams prior to graduation. With a grade of at least a "B-" in the appropriate course(s), students will have completed the Validation by Educational Experience (VEE) requirements for their chosen branch of insurance. (See "Validation by Educational Experience (VEE) Information" below.)

Internships are strongly recommended. They may be obtained through local or regional businesses and organizations, or potentially through study abroad or the Chicago Metropolitan Center. This experience provides the student with rich learning opportunities and puts course work into practice.

Actuarial Science majors are encouraged to consider the study abroad experience during the spring of their second year or the fall semester of their third or fourth year, depending upon their progression in the major. Some schedule adjustments will need to be made in order to accommodate a semester abroad, so it is important to plan ahead and speak with one of the major's co-directors early.

Major/minor restrictions

Actuarial Science majors cannot also declare a major or a minor in either business management or mathematics.

Actuarial Science Major Requirements (59 credits)

1. Complete all of the following:

ACCT	241	Introduction to Financial Accounting (3)
ACCT	242	Introduction to Management Accounting (3)
BMGT	261	Principles of Finance (3)
BMGT	362	Principles of Investment (3)
BMGT	462	Derivative Markets (3)
COSC	110	Introduction to Computer Science (3)
ECON	112	Principles of Microeconomics (3)
ECON	113	Principles of Macroeconomics (3)
ECON	381	Research Methods in Economics (4)
MATH	131	Calculus I (4)
MATH	132	Calculus II (4)
MATH	215	Applied Statistics (4)
MATH	231	Multivariable Calculus (3)
MATH	240	Linear Algebra (4)
MATH	330	Mathematical Modeling (3)
MATH	341	Probability (3)
MATH	342	Statistics (3)

2. Complete one of the following courses with a grade of at least a "C":

COMM	160	Communication in Everyday Life (3)
COMM	270	Public Speaking (4)

Additional recommended courses

Students who want to get additional quantitative experience are encouraged to complete three additional economics courses. By completing these courses, students will also have a minor in economics.

ECON	312	Microeconomic Theory
ECON	313	Macroeconomic Theory
ECON	485	Economics Research Seminar

Students who want to get additional background in investments and financial markets are encouraged to take BMGT 363 Advanced Financial Management.

Students are encouraged to take additional courses as their schedules allow. While the courses below are not required for the major, having them will better prepare students for future job experiences.

BMGT	211	Business Writing and Speaking
BMGT	231	Business Law I
BMGT	311	Principles of Management
COMM	272	Oral Communication in Professional Contexts
COSC	109	Introduction to Information Management
COSC	130	Data Structures
ECON	324	Monetary Theory and the Financial System
ENGL	244	Professional Writing

Validation by Educational Experience (VEE) Information

Actuarial students who will be working with insurance for life events (e.g., life insurance, pension, health insurance) will fulfill the three VEE areas required by the Society of Actuaries with a grade of at least a "B-" in each of the major courses that are listed below.

- Economics VEE: ECON 112 and ECON 113
- Accounting and Finance VEE: ACCT 241, ACCT 242, BMGT 261, and BMGT 362
- Mathematical Statistics VEE: MATH 342

Actuarial students who will be working with insurance for casualty events (e.g., auto insurance, home insurance, crop insurance) will fulfill the two VEE areas required by the Casualty Actuary Society with a grade of at least a "B-" in each of the major courses that are listed below.

- Economics VEE: ECON 112 and ECON 113
- Accounting and Finance VEE: ACCT 241, ACCT 242, BMGT 261, and BMGT 362

ANTHROPOLOGY (CULTURAL)

Faculty

Lori Witt (chair), Cynthia Mahmood

Statement of philosophy

Cultural anthropology asks what it means to be human. Holistic and broad in scope, cultural anthropologists have an interest in all humans in all times and places. In a Western setting, such as Central College, there is an emphasis on learning about peoples from non-Western societies, with the goal of preparing ourselves to understand better an increasingly diverse and culturally dynamic world.

The cultural anthropology major is structured to provide students with a strong grounding in cultural anthropology within an interdisciplinary framework. The required courses offer a combination of academic anthropological knowledge and real world experiences, which gives students the foundation they will need to put their anthropological training to use after college. The major is also structured in a way that allows students to easily combine with another program of study (e.g. a foreign language, English, History, Business Management major or minor, etc.), providing even more opportunities for students to turn their individual interests into meaningful life endeavors.

Study Abroad and Language

Living in another culture and learning a second language have been important aspects of anthropology from its inception, since learning about another culture means immersing oneself in the local scene and interacting with people in their native language. Also, cultural anthropology majors who have lived in another culture and have a proficiency in a second language will have a wider range of employment opportunities outside of anthropology available to them than majors who do not. Therefore, studying abroad for at least one semester and second language acquisition are strongly encouraged for all cultural anthropology majors.

Major Communication Skills

The anthropology program begins to evaluate each student's reading, writing, and speaking skills one semester after the student declares his/her intention to major in cultural anthropology. All available evidence will be used including results of tests, grades received in courses and information supplied by department members. Students may be required to demonstrate communication proficiency either by providing a portfolio of their writing or by writing an essay on a broad topic of anthropological significance. Students will receive either a departmental endorsement or an outline of procedures that may include taking composition courses, developmental reading or speaking courses and working with the skills center.

Major and minor restrictions

Students may choose to declare a major in either cultural anthropology or sociology. Sociology majors may not declare a cultural anthropology minor. Cultural anthropology majors may not declare a sociology minor.

Admission to the Cultural Anthropology Program

Students enrolling at Central beginning in Fall 2021 may no longer apply for admission or transfer into the Cultural Anthropology major.

Cultural Anthropology Major Requirements (35 credits)

1. Complete all of the following (14 credits):

ANTH 120	Introduction to Cultural Anthropology (3)
ANTH 366	Ethnographic Field Methods (4)
ANTH 397	Internship (3)
ANTH 462	Culture Theory (4)

2. Complete 21 credits of elective courses, of which:

* at least 15 credits. must be anthropology (ANTH) or sociology (SOC) courses

* up to 6 credits may be taken from the following list:

COMM 268	Intercultural Communication (3)
ENGL 211	Literature of India and the Pacific (3)
ENGL 212	Caribbean Literature (3)

ENGL	243	Writing Oral Histories (4)
GEOG	210	Human Geography (4)
GEOG	225	Geography of Sub-Saharan Africa (3)
HIST	217	Contemporary Europe (4)
HIST	220	Middle Eastern Civilization (3)
HIST	250	Latin American Civilization (4)
HIST	280	Modern African Civilization (4)
MUS	114	World Music (3)
POLS	140	Introduction to International Politics (4)
REL	135	Islam (3) or REL 335 Readings in Islam (4)
REL	330	Readings in Asian Religions (4)

Note: Study Abroad and honors courses may be applied toward the major upon departmental approval.

Cultural Anthropology Minor (18 credits)

1. Complete ANTH 120 Introduction to Cultural Anthropology (3)
2. Complete an additional 15 credits of ANTH and/or SOC courses, with at least 9 credits being ANTH courses, and 6 credits at the 300-400 level.

ART

Faculty

Mathew Kelly (chair), Brian Roberts, Susan Swanson

Statement of philosophy

The Art major prepares students for careers related to art, creativity, and visual communication. The major is structured with the flexibility to combine with another program of study such as Psychology, Business Management, Theatre, Communications, and teaching licensure, providing integrated pathways for students to turn their individual interests into meaningful careers.

The visual arts are a primary mode of inquiry and an essential component of a Liberal Arts education. The Art Program prepares students to be visually literate scholars who engage in the shaping of the modern world through hands-on experiences coupled with careful study and analysis of historical developments and concepts. At all levels, the Program emphasizes critical visual analysis, idea generation, and technical facility, while cultivating effective written and oral communication skills. Students use the knowledge gained through the close study of works and history to think critically about the relationships between art and a range of human endeavors and experiences.

Students seeking teaching certification at the elementary or secondary level must fulfill the coursework requirements for teaching licensure in the state of Iowa in addition to the Art major requirements (see the "Education – K-12 Art, Music, PE" section of the catalog).

In addition to the classroom experiences, our students are active in a variety of student organizations and co-curricular activities. All these experiences contribute to the total development of our students and help prepare them to become leaders for the 21st century.

Internships and off campus opportunities

Art students are encouraged to participate in study abroad programs and/or the Chicago or Washington, D.C. metropolitan programs. Students should consult with the department faculty and the office of internships and career services for learning opportunities available through internships with such organizations as galleries and museums. Internships are also an integral part of the Chicago and Washington programs.

Major Communication Skills

Student baseline skills are measured in ART 151, 161 and 110, 221, or 222 with an emphasis on technique, historical identification, basic application of concepts to forms and historical developments. Two- and three-hundred level courses shift to emphasize integration of concepts, synthesis of interpretive and critical analysis skills, and creative problem solving.

A critical demonstration of skills development occurs in ART 325 History of Modern Art and Architecture and in ART 485 Senior Seminar in Art. ART 325 serves as the departmental writing-intensive course and emphasizes critical reading, subject research, and writing skills. ART 485 serves as the senior capstone requiring the integration of research, studio practice, and interpretive critical analysis. In addition, students are required to make a formal oral presentation and written thesis in conjunction with their thesis exhibition.

The department conducts a final portfolio review during the fourth year. Passing the final portfolio review is necessary to receive the department's endorsement for graduation.

Major/Minor Restrictions

Students may not minor in both Art History and Art. Art majors may not also minor in Art History.

Art Major Requirements (42 credits)

1. Complete all of the following:

ART	151	2D Problem Solving (4)
ART	161	3D Problem Solving (4)
ART	325	History of Modern Art (4)
ART	425	Theory, Criticism, and Art Since 1945 (4)
ART	485	Senior Seminar in Art (4) - includes senior exhibit (minimum grade "C" required)

2. Complete two of the following:

- ART 110 Art and Architecture of the Ancient World (4)
- ART 221 Medieval Art and Architecture (3)
- ART 222 Renaissance Art and the Modern World (3)
- ART 241 Art, Science & Knowledge-Making, 1500- 1800 (3)
- ART 242 Netherlandish Art, 1400- 1650 (3)

3. Complete 16 credits of ART electives**3. Pass a final portfolio review as determined by department faculty.****Art Minor Requirements (18 credits)**

Complete 18 credits of ART courses, including at least one art history course and 3 credits of studio art electives at the 300-400 level.

Art History Minor Requirements (20 credits)**1. Complete all of the following:**

- ART 221 Medieval Art and Architecture (3)
- ART 222 Renaissance Art and the Modern World (3)
- ART 325 History of Modern Art (4)
- ART 425 Theory, Criticism and Art Since 1945 (4)

2. Complete at least 3 credits of art history electives**3. Complete at least 3 credits of studio art electives****Teaching Licensure – Art**

Students seeking teaching licensure in art at the elementary or secondary level should consult with the education department regarding specific requirements in each area.

BIOCHEMISTRY, BACHELOR OF ARTS

Faculty

James Shriver (chair), James Dunne, Ashley Garr, Lee Macomber, Mary Ross, Jay Wackerly

Statement of philosophy

Housed in the Natural Sciences department, a Bachelor of Arts degree with a major in biochemistry is offered for students interested in the impact of chemistry on biological systems. Students choosing this major will obtain excellent preparation for a variety of careers including biochemistry, biotechnology, pharmacology, and agricultural chemistry. A degree in biochemistry is also an excellent precursor to pre-professional programs including medicine, dentistry, and optometry. A student cannot major in both chemistry and biochemistry.

The faculty strives to remain abreast of modern chemical techniques while being aware of the benefits and responsibilities of living in a technological society. Our department follows guidelines of the American Chemical Society (ACS), so biochemistry majors receive instruction comparable to that at larger institutions while benefiting from individualized attention that is the hallmark of Central College. In connection with our ACS certification, students in our department have on-line access to all American Chemical Society publications.

*Students interested in graduate school or an industrial career should consider the Bachelor of Science degree in Biochemistry.

Major/Minor restrictions

A student may not major in both biochemistry and chemistry.

Biochemistry Major Requirements (59-60 credits)

1. Complete all of the following (52 credits):

CHEM 111	General Chemistry with Lab (4)
CHEM 221	Inorganic Chemistry with Lab (4)
CHEM 231	Organic Chemistry I with Lab (4)
CHEM 241	Analytical Chemistry with Lab (4)
CHEM 331	Organic Chemistry II with Lab (4)
CHEM 351	Biochemistry with Lab (4)
CHEM 361	Physical Chemistry I (3)
CHEM 363	Chemical Kinetics with Lab (1)
CHEM 451	Advanced Topics in Biochemistry (3)
BIOL 131	Introduction to Cells with Lab (4)
BIOL 221	Genetics and Evolution with Lab (4)
MATH 131	Calculus I (4)
MATH 132	Calculus II (4)
PHYS 111	General Physics I (5)

2. Complete one of the following electives in Biology (4 credits):

BIOL 341	Human Physiology with Lab (4)
BIOL 361	Microbiology with Lab (4)

3. Complete an additional biology elective from group 2 or one of the following chemistry courses (3-4 credits):

CHEM 421	Advanced Inorganic Chemistry with Lab (3)
CHEM 431	Advanced Organic Chemistry with Lab (4)
CHEM 442	Instrumental Analysis with Lab (4)

BIOCHEMISTRY, BACHELOR OF SCIENCE

Faculty

James Shriver (chair), James Dunne, Ashley Garr, Lee Macomber, Mary Ross, Jay Wackerly

Statement of philosophy

Housed in the Natural Sciences department, a Bachelor of Science degree with a major in biochemistry is offered for students looking to study the interface of chemistry and biology in more depth. In addition to core classes offered as part of the B.A. major in chemistry, students will take an array of upper-level electives to focus work on their career goals. These major elective tracks allow for additional focus in Biology (Molecular Science) or Computer Science/Mathematics (Data Science). Students earning a B.S. major in biochemistry will automatically be eligible to graduate with an ACS-certified degree. The faculty strives to remain abreast of modern chemical techniques while being aware of the benefits and responsibilities of living in a technological society. Our department follows guidelines of the American Chemical Society (ACS), so biochemistry majors receive instruction comparable to that at larger institutions while benefiting from individualized attention that is the hallmark of Central College

American Chemical Society certification

The Bachelor of Science degree with a major in biochemistry meets the requirements for ACS- certification which offers excellent preparation for graduate school or a career in industry or government. According to the American Chemical Society, a department that follows and meets the guidelines for certification produces graduates with the background necessary to enter graduate school or employment in which a strong background in chemistry is needed. An ACS approved department will “assure students that they have high quality programs in chemistry. For the student, a certified degree in chemistry is a valuable personal credential that serves as a national-level recognition for successfully completing a rigorous academic chemistry curriculum in an ACS-approved department. The extra rigor and additional requirements of the certified degree are valued by potential employers and graduate schools alike.” (Undergraduate Professional Education in Chemistry Guidelines and Evaluation Procedures, Spring 2003, American Chemical Society Committee on Professional Training). In connection with our ACS certification, students in our department have on-line access to all American Chemical Society publications.

*Students interested in pre-health careers should consider a Bachelor of Arts degree with a major in biochemistry to support additional needed coursework appropriate to their chosen program.

Major/Minor restrictions

A student may not major in both biochemistry and chemistry.

*To facilitate flexibility in relation to additional majors, minors, or study abroad, students may request a substitution for a major requirement through the department chair.

Biochemistry Major Requirements, BS (minimum of 77 credits)

1. Complete all of the following (64 credits):

BIOL 131	Introduction to Cells with Lab (4)
BIOL 221	Genetics and Evolution with Lab (4)
CHEM 111	General Chemistry with Lab (4)
CHEM 221	Inorganic Chemistry with Lab (4)
CHEM 231	Organic Chemistry I with Lab (4)
CHEM 241	Analytical Chemistry with Lab (4)
CHEM 331	Organic Chemistry II with Lab (4)
CHEM 351	Biochemistry with Lab (4)
CHEM 361	Physical Chemistry I (3)
CHEM 363	Chemical Kinetics with Lab (1)
CHEM 451	Advanced Topics in Biochemistry (3)
CHEM 461	Physical Chemistry II (3)
MATH 131	Calculus I (4)
MATH 132	Calculus II (4)
MATH 215	Applied Statistics (4)
PHYS 111	General Physics I with Lab (5)
PHYS 112	General Physics II with Lab (5)

2. Complete two biology elective courses from the list below (7-8 credits):

- BIOL 341 Human Physiology with Lab (4)
- BIOL 361 Microbiology with Lab (4)
- BIOL 364 Molecular Biology (3)
- Other approved electives if developed.

3. Complete a significant research capstone experience by completing one of the following options:

Research Track: Students will complete a multi-semester research experience culminating in the completion of a thesis, judged by completing one of the following. (2 credits)

- CHEM 498 Senior Thesis in Chemistry (2)
- CHEM 499H Senior Honors Thesis (2)

Industrial Track: Students will complete a significant internship/ work experience approved by the department. May be done for internship credit.

4. Complete an additional 2 courses (6-8 credits)

These courses can come from the list below or from courses NOT used in section 2 (courses may NOT count twice).

- BIOL 210 Epidemiology (3)
- CHEM 421 Advanced Inorganic Chemistry with Lab (3)
- CHEM 431 Advanced Organic Chemistry with Lab (3)
- CHEM 442 Instrumental Analysis with Lab (4)
- CHEM 451 Advanced Topics in Biochemistry (3), 2nd topic
- COSC 110 Introduction to Computer Science (3)
- COSC 130 Data Structures (3)
- DATA 310 Data Visualization (3)
- MATH 330 Mathematical Modeling (3)
- MATH 341 Probability (3)

BIOLOGY

Faculty

James Shriver (chair), Russell Benedict, Anya Butt, Ellen Du Pré, Nicole Palenske Ladner, Lee Macomber, Paulina Mena, Kristin Siewert, Paul Weihe

Statement of philosophy

Advances in such critical areas as the environment, genetics and medicine clearly show that biology is one of the most dynamic disciplines of our time; perhaps the only certainty is that no one knows which of its many facets will become important next. It is also clear that very few undergraduates enter college with a final decision on their ultimate vocational preference. The philosophy of the biology program reflects both of these realities by offering our students a strong foundation in biology without over-specialization. We emphasize an intellectual approach rooted in the college's liberal arts tradition. The biology faculty use the framework of biology to develop the kinds of abilities that will serve students well no matter what paths their lives take: to think critically, analytically and independently; to communicate effectively; to search for an original approach; to solve problems efficiently; to achieve and maintain intellectual curiosity; and to demonstrate an understanding of human impact on the global environment. The result has been graduates who meet with success no matter where their life choices take them.

Student research in biology

The biology program is committed to fostering student research. In addition to state-of-the-art laboratories and equipment in the Vermeer Science Center, the College maintains the 80-acre Carlson-Kuyper Biology Field Station on Lake Red Rock.

Study abroad opportunities

For decades, the biology program has been at the forefront of promoting study abroad experiences and the Natural Sciences department will work with biology majors so they can obtain the benefit of an international study experience and still graduate in four years.

Biology Major Requirements (43 credits)

1. Complete all of the following:

BIOL	130	Diversity of Life with Lab (4)
BIOL	131	Introduction to Cells with Lab (4)
BIOL	221	Genetics and Evolution with Lab (4)
BIOL	229	Ecology and Evolution with Lab (4)
CHEM	111	General Chemistry with Lab (4)
CHEM	231	Organic Chemistry I with Lab (4)
MATH	105	Introduction to Statistics (4) or MATH 215 Applied Statistics (4)

2. Complete an additional 15 credits from the following:

BIOL	210	Epidemiology (3)
BIOL	310	Tropical Ecology (3-4)
BIOL	315	Aquatic Toxicology (4)
BIOL	320	Evolution with Discussion Lab (4)
BIOL	321	Comparative Vertebrate Anatomy with Lab (4)
BIOL	324	Field Botany with Lab (4)
BIOL	341	Human Physiology with Lab (4)
BIOL	342	Mammalogy with Lab (4)
BIOL	343	Ornithology with Lab (4)
BIOL	345	Limnology with Lab (4)
BIOL	350	Conservation Biology and Ecology of Iowa (4)
BIOL	360	Human Anatomy with Lab (4)
BIOL	361	Microbiology with Lab (4)
BIOL	364	Molecular Biology (3)
CHEM	351	Biochemistry with Lab (4)
GEOG	320	Principles of GIS with Lab (3)

Biology Minor Requirements (19-20 credits)**1. Complete all of the following:**

- BIOL 130 Diversity of Life with Lab (4)
- BIOL 131 Introduction to Cells with Lab (4)
- BIOL 221 Genetics and Evolution with Lab (4)
- BIOL 229 Ecology and Evolution with Lab (4)

2. Complete one of the following:

- BIOL 310 Tropical Ecology (3-4)
- BIOL 315 Aquatic Toxicology with lab (4)
- BIOL 320 Evolution with Discussion Lab (4)
- BIOL 321 Comparative Vertebrate Anatomy with lab (4)
- BIOL 324 Field Botany with Lab (4)
- BIOL 341 Human Physiology with Lab (4)
- BIOL 342 Mammalogy with Lab (4)
- BIOL 343 Ornithology with lab (4)
- BIOL 345 Limnology with Lab (4)
- BIOL 350 Conservation Biology and Ecology of Iowa (4)
- BIOL 360 Human Anatomy with Lab (4)
- BIOL 361 Microbiology with Lab (4)
- BIOL 364 Molecular Biology (3)
- CHEM 351 Biochemistry with Lab (4)

BUSINESS MANAGEMENT

Faculty

Maggie Schlerman (chair), Graham Lemke, Ann McDonald, Tuan Nguyen, George Nwaogu, Julie Summers

Statement of philosophy

Housed in the Economics, Accounting and Management Department, the business management major offers students the opportunity to gain an understanding of business operations in the context of the liberal arts tradition. The major provides students a strong foundation in business with an opportunity to develop an emphasis in one of six business areas: business administration, international business, finance, business analytics, and marketing. The major also satisfies state of Iowa requirements for the secondary education business endorsement.

Central students benefit from multidimensional teaching approaches that facilitate active learning: computer simulations, case studies, presentations, class discussions and team projects. Each of these various methodologies emphasizes written and oral communication skills. The performance of Central students on standardized examinations such as GMAT and LSAT, their acceptance into quality graduate programs and their success in careers demonstrate the strengths of the program.

Quality education must extend well beyond the classroom. Accordingly, academic advising is geared toward assisting students in making sound choices regarding courses and appropriate co-curricular learning experiences. Students are encouraged to participate in programs abroad and/or the Chicago Semester or Washington, D.C. programs, to explore co-op, internship opportunities, and service-learning opportunities, and to participate in student organizations. By integrating practical and theoretical experiences, students will be prepared to appreciate the global and cultural diversity of the 21st century.

Business Management Major Requirements (46-47 credits)

Note: This major may not be declared in combination with the Information Systems major

1. Complete all of the following: (24)

ACCT 241	Introduction to Financial Accounting (3)
ACCT 242	Introduction to Management Accounting (3)
ECON 112	Principles of Microeconomics (3)
ECON 113	Principles of Macroeconomics (3)
BMGT 231	Business Law (3)
BMGT 261	Principles of Finance (3)
BMGT 271	Principles of Marketing (3)
BMGT 311	Principles of Management (3)

2. Complete one course in statistics from the following: (4)

MATH 105	Introduction to Statistics (4)
MATH 215	Applied Statistics (4)

3. Complete one course in computer science from the following: (3)

COSC 109	Introduction to Information Management (3)
COSC 110	Introduction to Computer Science (3)

4. Complete one of the courses below.*(3)

COMM 160	Communication in Everyday Life (3)
COMM 270	Public Speaking (4)
THEA 150	Acting (3)

*It is recommended that students complete this before the third year.

5. Complete 9 credits at the 300-level or higher in business management, following the emphasis area guide, and/or as developed in conversation with your academic advisor and as approved by the EAM Department Chair. (9)

Students complete emphases in their upper-level coursework, typically in business administration, marketing, finance, business analytics, international management, or secondary education. Certain 300 and 400 level economics and accounting courses may count toward this requirement; consult with your academic advisor for more information.

Pre- Approved BMGT Emphasis Areas:

Business Administration

Choose one course from:

- BMGT 372 Consumer Behavior (3)
- BMGT 373 Marketing Management (3)
- BMGT 375 Marketing Research (3)

Choose one course from:

- BMGT 362 Principles of Investment (3)
- BMGT 363 Advanced Financial Management (3)

Choose one course from:

- BMGT 335 Not For Profit Management (3)
- BMGT 352 Human Resource Management (3)
- BMGT 381 Operations Management (3)

Marketing

Complete all of the following;

- BMGT 372 Consumer Behavior (3)
- BMGT 373 Marketing Management (3)
- BMGT 375 Marketing Research (3)

Finance

Complete the following:

- BMGT 362 Principles of Investment (3)
- BMGT 363 Advanced Financial Management (3)

Choose one course from:

- ACCT 341 Intermediate Financial Accounting I (3)
- ACCT 344 Principles of Taxation (3)
- ECON 322 International Trade and Finance (3)
- ECON 324 Monetary Theory and Financial Systems (3)

Business Analytics:

Complete three of the following:

- ACCT 321 Data Analytics for Accounting (3)
- BMGT 362 Principles of Investment (3)
- ECON 381 Research Methods in Economics (3)
- ECON 382 Economic Forecasting (3)

International Business:

Complete the following:

- ECON 322 International Trade and Finance (3)

Choose one course from:

- POLS 326 Political Violence and Terrorism (4)
- POLS 344 International Law and Human Rights (4)

Choose one course from:

- BMGT 362 Principles of Investment (3)
- ECON 329 Economic Development (3)

Plus: study abroad for a minimum of one semester.

Secondary Education:

Note: Emphasis available only to students admitted to the Teacher Education Program.

- ACCT 344 Principles of Taxation (3) Complete the following:
- BMGT 372 Consumer Behavior (3)
- ENTR 215 The Entrepreneurial Mindset (3)

6. Complete a strategic management capstone course. (3)

- BMGT 485 Strategic Management Capstone- Corporations (3)
- BMGT 486 Strategic Management Capstone- Start-Ups and Small Businesses (3)

Business Management Minor Requirements (21 credits minimum)

Note: This minor cannot be declared in conjunction with the accounting major or information systems major.

1. Complete all of the following:

- ECON 112 Principles of Microeconomics (3)
- ECON 113 Principles of Macroeconomics (3)
- ACCT 241 Introduction to Financial Accounting (3)
- ACCT 242 Introduction to Management Accounting (3)
- BMGT 311 Principles of Management (3)

2. Complete one of the following:

- BMGT 261 Principles of Finance (3) (Prerequisite ACCT 241)
- BMGT 381 Operations Management (3) (Prerequisites: MATH 105 or MATH 215; and third-year standing)

3. Complete one of the following:

- BMGT 231 Business Law (3)
- BMGT 271 Principles of Marketing (3)

CHEMISTRY, BACHELOR OF ARTS

Faculty

James Shriver (chair), James Dunne, Ashley Garr, Mary Ross, Jay Wackerly

Statement of philosophy

Housed in the Natural Sciences department, a Bachelor of Arts degree with a major in chemistry prepares students to operate at the interface between the sciences. Referred to as the central science, all physical and natural sciences are touched by chemistry. This major opens the door to such diverse career options as basic research, medicine, pharmacology, public health, teaching, industrial lab work, environmental testing laws and forensic science. Since chemistry is inherently experimental, the department is committed to providing students with ample laboratory experience to develop the tools necessary to become successful experimentalists. The faculty strives to remain abreast of modern chemical techniques while being aware of the benefits and responsibilities of living in a technological society. Our department follows guidelines of the American Chemical Society (ACS), so biochemistry majors receive instruction comparable to that at larger institutions while benefiting from individualized attention that is the hallmark of Central College.

*Students interested in graduate school or an industrial career should consider the Bachelor of Science degree in Chemistry.

Chemistry Major Requirements (60 credits)

1. Complete all of the following:

BIOL	131	Introduction to Cells with Lab (4)
CHEM	111	General Chemistry with Lab (4)
CHEM	221	Inorganic Chemistry with Lab (4)
CHEM	231	Organic Chemistry I with Lab (4)
CHEM	241	Analytical Chemistry with Lab (4)
CHEM	331	Organic Chemistry II with Lab (4)
CHEM	351	Biochemistry with Lab (4)
CHEM	361	Physical Chemistry I (3)
CHEM	363	Chemical Kinetics with Lab (1)
CHEM	461	Physical Chemistry II (3)
MATH	131	Calculus I (4)
MATH	132	Calculus II (4)
PHYS	111	General Physics I with Lab (5)
PHYS	112	General Physics II with Lab (5)

2. Complete at least 6 credits from the following:

CHEM	372	Environmental Chemistry with Lab (3)
CHEM	421	Advanced Inorganic Chemistry with Lab (3)
CHEM	431	Advanced Organic Chemistry with Lab (4)
CHEM	442	Instrumental Analysis with Lab (4)
CHEM	451	Advanced Topics in Biochemistry (3)
CHEM	463	Advanced Physical Chemistry (3)

Chemistry Minor Requirements (19 credits)

1. Complete all of the following:

CHEM	111	General Chemistry with Lab (4)
CHEM	231	Organic Chemistry I with Lab (4)
CHEM	241	Analytical Chemistry with Lab (4)

2. Complete an additional two Chemistry courses at the 200-level or higher with at least one course at the 300-level or higher.

CHEMISTRY, BACHELOR OF SCIENCE

Faculty

James Shriver (chair), James Dunne, Ashley Garr, Mary Ross, Jay Wackerly

Statement of philosophy

Housed in the Natural Sciences department, a Bachelor of Science degree with a major in chemistry prepares students for an in-depth study of chemistry with significant study of connected areas. Referred to as the central science, all physical and natural sciences are touched by chemistry. With its in-depth focus, this major opens is targeted for students looking towards in array of career choices including basic research, pharmacology, industrial lab work, and forensic science. Since chemistry is inherently experimental, the department is committed to providing students with ample laboratory experience to develop the tools necessary to become successful experimentalists. Using personalized advising, students will design major elective tracks that allow for additional focus in Engineering, Physics, Mathematics or Computer Science (programming).

American Chemical Society certification

The Bachelor of Science degree with a major in Chemistry meets the requirements for ACS-certification which offers excellent preparation for graduate school or a career in industry or government. According to the American Chemical Society, a department that follows and meets the guidelines for certification produces graduates with the background necessary to enter graduate school or employment in which a strong background in chemistry is needed. An ACS approved department will “assure students that they have high quality programs in chemistry. For the student, a certified degree in chemistry is a valuable personal credential that serves as a national-level recognition for successfully completing a rigorous academic chemistry curriculum in an ACS-approved department...The extra rigor and additional requirements of the certified degree are valued by potential employers and graduate schools alike.” (Undergraduate Professional Education in Chemistry Guidelines and Evaluation Procedures, Spring 2003, American Chemical Society Committee on Professional Training). In connection with our ACS certification, students in our department have on-line access to all American Chemical Society publications.

*Students interested in pre-health careers should consider a Bachelors of Arts degree with a major in chemistry to support additional needed coursework appropriate to their chosen program.

*To facilitate flexibility in relation to additional majors, minors, or study abroad, students may request a substitution for a major requirement through the department chair.

Chemistry Major Requirements, BS (minimum 75 credits)

1. Complete all of the following (57 credits):

BIOL	131	Introduction to Cells with Lab (4)
CHEM	111	General Chemistry with Lab (4)
CHEM	221	Inorganic Chemistry with Lab (4)
CHEM	231	Organic Chemistry I with Lab (4)
CHEM	241	Analytical Chemistry with Lab (4)
CHEM	331	Organic Chemistry II with Lab (4)
CHEM	351	Biochemistry with Lab (4)
CHEM	361	Physical Chemistry I (3)
CHEM	363	Chemical Kinetics with Lab (1)
CHEM	442	Instrumental Analysis with Lab (4)
CHEM	461	Physical Chemistry II (3)
MATH	131	Calculus I (4)
MATH	132	Calculus II (4)
PHYS	111	General Physics I with Lab (5)
PHYS	112	General Physics II with Lab (5)

2. Complete two chemistry elective courses from the following (6-8 credits):

CHEM	372	Environmental Chemistry with Lab (3)
CHEM	421	Advanced Inorganic Chemistry with Lab (3)
CHEM	431	Advanced Organic Chemistry with Lab (4)
CHEM	451	Advanced Topics in Biochemistry (3)

3. Complete a significant research capstone experience by completing one of the following options:

Research Track: Students will complete a multi-semester research experience culminating in the completion of a thesis, judged by completing one of the following. (2 credits)

CHEM 498 Senior Thesis in Chemistry (2)

CHEM 499H Senior Honors Thesis (2)

Industrial Track: Students will complete a significant internship/ work experience approved by the department. May be done for internship credit.

4. Complete an additional 4 courses (12-16 credits)

These courses can come from the list below or from courses NOT used in section 2 (courses may NOT count twice).

COSC 110 Introduction to Computer Science (3)

COSC 130 Data Structures (3)

ENGR 211 Statics (3)

ENGR 212 Dynamics (3)

ENGR 312 Fluid Mechanics (3)

ENGR 311 Thermodynamics (3)

MATH 231 Multivariable Calculus (3)

MATH 240 Linear Algebra (4)

MATH 250 Differential Equations (3)

PHYS 225 Modern Physics I (3)

PHYS 322 Optics (3)

PHYS 412 Quantum Mechanics (4)

COMMUNICATION STUDIES

Faculty

Mary Stark (chair), Shelley Bradfield, Mary Donato, Linda Laine, Stavros Papakonstantinidis

Statement of philosophy

The Communication Studies program provides students with broad-based exposure to the academic discipline that examines the process of creating messages, meaning, and relationships in a broad array of contexts. To cultivate critical thinking, clear writing, articulate speaking, and proficiency with technology, our students study communication in a variety of contexts, particularly those related to professional engagement, interpersonal, and media citizenship. Through a combination of theoretical grounding and applied experience, we prepare our majors for a range of careers, enable them to participate productively in a democratic culture, and instill in them a desire for lifelong learning. Coursework is supplemented by internships, and service learning experiences.

Major Communication Skills

Competency in oral communication is demonstrated throughout the curriculum. Competency in written communication skills is assessed by the completion of COMM 280 Communication Research and Writing with a minimum grade of "C" for the course. Communication Studies majors attaining less than this level of proficiency must retake the course until achieving a satisfactory level of performance. Students are urged to complete COMM 280 in their second year.

Communication Studies Major Requirements (39-42 credits)

1. Complete all of the following:

- COMM 160 Communication in Everyday Life (3)
- COMM 180 Introduction to Communication Theory (3) (minimum grade of "C" required)
- COMM 280 Communication Research and Writing (4) (minimum grade of "C" required)

2. Complete at least 1 credit from the following:

- COMM 383 Service Learning Module in Communication Studies
 - COMM 397 Internship in Communication Studies
- Internships completed as part of off campus programs may count if pre-approved by the department*

3. Complete 8 elective courses in communication studies, including a minimum of 3 upper-level courses at the 300-level or above. Students are encouraged to take a diverse range of upper-level courses representative of the communication discipline. *An additional 3-4 credits of COMM 397 or 383 may be used in place of one elective course if pre-approved by the department.*

Communication Studies Minor Requirements (19-22 credits)

Students interested in pursuing a minor in Communication Studies should meet with a faculty member in the department for advisement early in their program.

1. Complete the following:

- COMM 160 Communication in Everyday Life (3)
- COMM 180 Introduction to Communication Theory (3)

2. Complete 4 elective courses in communication studies, including a minimum of 2 courses at the 300 level or above.

COMPUTER SCIENCE

Faculty

Wendy Weber (chair), Stephen Fyfe, Erik Insko, Michael Thompson

Statement of philosophy

Are you interested in learning to write software to solve problems or analyze data? Central College offers a broad range of computer science courses where students gain experience working with programming languages such as Python, Java, C++, and PHP, to become application developers, system administrators, data analysts, web programmers and software engineers. Students majoring in computer science choose either a traditional track or an emphasis in data science, depending on their interest.

No previous computing experience is required before beginning the computer science program. The major is designed to be flexible, facilitating study abroad, internships, and second majors, or minors. Introductory courses in Python and Java lay the foundation for a software design course in the second year. After taking these courses, students are prepared for a variety of upper-level courses and in their chosen track. The senior year culminates in a project of the student's choice.

Major Communication Skills

Students majoring in computer science will develop their ability to speak, listen, read, and write technical material throughout the major curriculum. If a student's progress is insufficient, additional coursework in writing or speaking may be recommended by the academic advisor. Final development and evaluation of communication skills will occur in the capstone senior project course, COSC-420.

Major/minor restrictions

Students who declare computer science as their major or minor may not declare an information systems major with an emphasis in computer information systems. Students who declare a computer science major with a data science emphasis may not declare a mathematics major with a data science emphasis. Students seeking a teaching endorsement should consult the education department.

Computer Science Major Requirements (42-46 credits)

1. Complete all of the following (25 credits):

COSC	110	Introduction to Computer Science (3)
COSC	130	Data Structures (3)
COSC	220	Software Design (4)
COSC	245	Computer Organization and Architecture (4)
COSC	420	Senior Project (4)
MATH	131	Calculus I (4)
MATH	220	Discrete Mathematics (3)

2. Complete all the requirements for one of the following tracks:

Traditional Computer Science Track (17 credits)

COSC	330	Algorithms (3)
COSC	345	Computer Systems (4)

OR

COSC	346	Cybersecurity (4)
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Complete 7 hours of elective COSC courses numbered 200 or above, may include DATA 440. Excludes internships or practicum.

At least 3 additional credits of MATH courses at the 132-level or above.

Data Science Track (20 credits)

MATH	215	Applied Statistics (4)
DATA	210	Introduction to Data Science (3)
DATA	310	Data Visualization (3)
DATA	440	Applied Machine Learning (3)

Complete 7 hours of elective COSC courses numbered 200 or above, may include one of MATH 132 or MATH 240. Excludes internships or practicum.

Computer Science Minor Requirements (20 credits)

1. Complete all of the following:

- COSC 110 Introduction to Computer Science (3)
- COSC 130 Data Structures (3)
- COSC 220 Software Design (4)

2. Complete *10 credits* of additional COSC courses numbered 120 and above, including MATH 220, but excluding service learning, internships, and practica, with at least 3 credits at the 300 or 400 level.

DATA SCIENCE

Faculty

Wendy Weber (chair), Erik Insko, Stephen Fyfe, Russ Goodman, Tom Linton, Mark Mills, Alexey Pronin, Michael Thompson.

Statement of Philosophy

Data is everywhere in today's society. A minor in data science is a valuable way for students to learn a variety of concepts, tools, and modern technologies connected to data analysis. Further, students minoring in data science will have enhanced abilities to visualize, interpret, and communicate the results of analyses involving data. These are all essential skills for students to apply in the context of a variety of disciplines, including their chosen field of study.

Minor Restriction

Students declaring a computer science major or mathematics major may not also declare a data science minor. Students declaring an economics major or an actuarial science major must take an elective outside of their major.

Data Science Minor Requirements (23-24 credits)

1. Complete all of the following:

COSC 110	Introduction to Computer Science (3)
MATH 131	Calculus I (4)
MATH 215	Applied Statistics (4) or approved disciplinary statistics course
DATA 210	Introduction to Data Science (3)
DATA 310	Data Visualization (3)
DATA 440	Applied Machine Learning (3)

2. Complete one of the following:

COSC 130	Data Structures (3)
COSC 210	Database and the Web (4)
ECON 381	Research Methods in Economics (4)
ECON 382	Economic Forecasting (3)
ECON 485	Economics Research Seminar (3)
GEOG 320	Principles of GIS with Lab (3)
MATH 132	Calculus II (4)
MATH 240	Linear Algebra (4)
POLS 250	Methods of Political Research (4)
POLS 489	Research Seminar (4)
SOC 350	Methods of Social Research (4)

Notes regarding prerequisites

COSC 110 is a prerequisite for DATA 210

DATA 310 requires second-year standing

COSC 110 and MATH 131 are prerequisites for DATA 440

ECONOMICS

Faculty

Maggie Schlerman (chair), Graham Lemke, Ann McDonald, Tuan Nguyen, George Nwaogu, Julie Summers

Statement of philosophy

The study of economics is part of the traditional liberal arts and offers the student a knowledge of and appreciation for the complexities of the human experience. Economics studies the decision-making behavior of individuals, firms, national economies and other economic groups. It is an important field of study for those who wish to be educated citizens in today's world.

The purpose of Central's economics program is to provide students with a comprehensive understanding of economic theory and a mastery of the important methodologies. Students acquire the ability to apply economic theory to contemporary issues and to utilize its tools in the search for solutions to daily problems. The faculty seek to actively involve students in the learning process by placing them in situations in which they must make economic decisions.

Majors in economics take courses in microeconomics, macroeconomics and research methods, plus a minimum of five additional courses at the 300-400 level. Students are strongly encouraged to study abroad and/or in the Chicago program, and to extend their education beyond the classroom through internships, involvement in the EAM Club, Omicron Delta Epsilon and other co-curricular activities on campus.

Many Central economics majors enter the business world upon graduation; others begin careers in the government sector, working with such agencies as the Department of Labor or the Federal Reserve. In addition, a number of graduates go on to acquire graduate degrees in business, economics, law and public administration.

Economics Major Requirements (Minimum 50 credits)

1. Complete all of the following:

ECON 112	Principles of Microeconomics (3)
ECON 113	Principles of Macroeconomics (3)
ECON 381	Research Methods in Economics (4)
ECON 312	Microeconomic Theory (4)
ECON 313	Macroeconomic Theory (4)
ECON 485	Economics Research Seminar (3)
MATH 131	Calculus I (4)
MATH 215	Applied Statistics (4)

2. Complete one of the following:

COSC 109	Introduction to Information Management (3)
COSC 110	Introduction to Computer Science (3)

3. Complete one of the following:

COMM 160	Communication in Everyday Life (3)
COMM 270	Public Speaking (4)

4. Complete 15 credits from 300- and 400-level courses in ECON.

MATH 330	Mathematical Modeling may also count.
ECON 397	does not count toward the economics major.

Economics Minor Requirements (18 credit minimum)

1. Complete the following:

ECON 112	Principles of Microeconomics (3)
ECON 113	Principles of Macroeconomics (3)

2. Complete a minimum of 12 credits of additional ECON courses, chosen in consultation with an economics faculty member; 6 of these additional hours must be taken at the 300-level or higher.

EDUCATION (ELEMENTARY)

Faculty

Melissa McAninch (chair), Jennifer Diers (director), Erin Durflinger, Alan Hastings, Tamara Masters, Tamala Strawser, Julianne Taylor, Taylor Weldon

Statement of philosophy

The philosophical foundation of teacher education at Central College is the liberal arts tradition. Central College teacher preparation candidates exhibit knowledge, skills, and dispositions that are aligned with national and state teaching standards and are grounded in our program's focus on developmental, authentic learning experiences. Through the completion of coursework and embedded field/clinical experiences, our graduates are prepared to exhibit the following skills and dispositions of effective teachers:

- Plan instruction by using knowledge of the content, cross disciplinary skills, individual learner differences, the community, and best practice to meet rigorous learning goals
- Use differentiated strategies and connect concepts to encourage learners to develop deep understanding of the content
- Utilize strategies, resources and technology to enhance critical/creative thinking and problem solving
- Apply classroom management and motivational strategies to create positive, productive learning environments
- Make instructional decisions based on multiple methods of assessment
- Collaborate as a professional, self-directed, and committed learner
- Reflect upon and facilitate student learning
- Advocate for students

The achievement of these program standards is based on a commitment to the personal and professional fulfillment of each student. Students receive individualized attention through advising, instruction and supervision of clinical/field experiences. Field experiences are extensive and developmentally appropriate. Continuous contact with teachers and students in clinical settings enables prospective teachers to successfully transfer educational theory into effective practice. Programs at Central College combine the best of traditional educational practice with the latest in innovative contemporary theory.

Education students may be eligible to enroll in the Central Teacher Academy (CTA), which is a three-year program that pairs a teacher education candidate with a preschool-12 mentor teacher. Students in CTA complete additional clinical/field experiences and professional development sessions. All education students are encouraged to consider the numerous off-campus internship opportunities available at domestic and international sites.

Program approval

The Central College teacher education program is approved by the Iowa Department of Education. Students successfully completing one of the prescribed programs may be considered candidates for an Iowa teaching license and is endorsed according to the type of program completed.

The credentials of Central College are respected outside Iowa, but students desiring to teach in any other state should be acquainted with the professional requirements of the state in question as early as possible in their college career. Any student who is seeking Iowa licensure with the intent of also meeting the licensure requirements of another state should consult with the Department of Education in that state.

Admission and retention requirements

Application for the teacher education program is expected after completing EDUC 110, 135, and 181. Candidates are continually evaluated throughout the program to ensure appropriate progression in departmental standards and are formally reviewed by the full department at the point of admission to the teacher education program, at individual conferences at the end of each block, prior to student teaching, and before application for licensure.

Admission and retention in the teacher education program includes the following criteria:

1. Maintenance of a cumulative grade point average of 2.7;
2. Attainment of a minimum grade of "C" in all courses with the EDUC prefix;
3. Successful completion of all observations and field experience assignments;
4. Successful completion of departmental benchmark assignments;
5. Demonstration of Central College teacher candidate dispositions;
6. Demonstration of expertise in content and effective oral and written communication;

Study abroad opportunities

The education department encourages students to consider the advantages of study abroad. Internships and programs of study in teacher education can be explored as growth opportunities.

Major Communication Skills

Graduates of Central College must exhibit proficiency in communication skills. The communication skills expectations addressing reading, writing, and speaking for Central College are replicated in the Education Department's In TASC Standards and dispositions. Ongoing evaluation of communication skills takes place in EDUC prefix courses and core courses with a college WRT designation. Writing skills are evaluated through writing assignments that are assessed for content, style, and mechanics. Writing assignments include term papers, journals, position papers, lesson plans, and research papers. Reading skills are assessed for literal, inferential, and evaluative comprehension of a variety of educational materials. Speaking and listening skills are evaluated in assignments including small group discussions, leading large groups, teaching classes, oral presentations, and debates. Students who are deficient in any of the skills areas are required to remediate the deficiencies through the campus support services or in consultation with a member of the department faculty.

A final evaluation is made during the student teaching semester when students have established that they are able to communicate effectively in the school classroom and complete written and oral projects for the Senior/Professional Seminar (EDUC 485/486) course. As a culminating experience, students' communication skills are evaluated as they present their program portfolio to faculty members and peers during the department's Senior Showcase event. Attainment of "Meets Standard" in all assessed areas on the Senior Showcase rubric (see appendix) is required and includes the assessment of communication skills required for graduation by the college.

Endorsements and special programs for Iowa licensure

Elementary education

Program completion is not final and a recommendation for a teaching license the endorsement for teaching kindergarten through grade six will not be granted until the teaching candidate has met the following requirements:

1. Completion of a B.A. or B.S.
2. Attainment of a minimum grade of "C" in all courses with an EDUC prefix
3. Attainment of final ratings of "Meets Standard" in at least eight of the ten overall ratings of InTASC standards. An overall rating of "unsatisfactory" in any standard or disposition will disqualify the teaching candidate from the recommendation for licensure.
4. Demonstrate "Meets Standard" in six of the seven teaching dispositions. An overall rating of "unsatisfactory" in any standard or disposition will disqualify the teaching candidate from the recommendation for licensure.
5. Attainment of "Meets Standard" in all assessed areas on the Senior Showcase rubric
6. Completion of all requirements in the education, including student teaching
7. Completion of all support courses from various departments as advised by the Education Department to meet licensure & endorsement requirements, individual interest, and/or need
8. Attainment of "Meets Standard" in all assessed areas on the Senior Showcase rubric
9. Recommendation for licensure from the Education Department voting faculty members

Upon successful completion of these requirements, the graduate is recommended to the Iowa Board of Educational Examiners for a teaching license.

Elementary Education Major Requirements (48 credits)

Note: Students seeking teacher licensure must, in addition to these major requirements, complete all Teacher Licensure Requirements, listed following these major requirements.

1. Complete all of the following:

EDUC 110	Foundations of Education (3)
EDUC 135	Children with Exceptionalities (3)
EDUC 181	Developmental Psychology (3)
EDUC 215	Human Relations (3)
EDUC 237	Teaching Language Arts and Reading (3)
EDUC 240	Teaching, Learning and Assessment (3)
EDUC 333	Science and Technology Curriculum and Methods (3)
EDUC 334	Social Studies Curriculum and Methods (3)
EDUC 352	Teaching of Reading (3)
EDUC 354	Teaching of Mathematics (3)
EDUC 374	Behavior and Classroom Management (3)

- EDUC 453 Advanced Integration of Technology in Education – Elementary (1)
 EDUC 485 Senior Seminar in Elementary Education (2)

2. Complete one of the following two options:

EDUC 460 Elementary Student Teaching (12)

OR

Complete both of the following:

EDUC 462 Elementary Student Teaching (6)

EDUC 468 K-6 Mild and Moderate Disabilities Student Teaching (6)

Teacher licensure requirements

(in addition to 48 credits education major requirements)

1. Complete all elementary education major requirements (48 credits -- see above) with a “C” or better in each course

2. Complete the following:

EDUC 210 Methods of Teaching Physical Education, Visual Arts, and Performing Arts in the Elementary Classroom (3)

ENGL 208 Literature for Children (3)

GEOG 110 Introduction to Geography (3)

Or GEOG 210 Human Geography (4)

HIST 130 United States to 1877 (3)

Or HIST 131 United States since 1877 (3)

Or HIST 132 Issues in American History (3)

MATH 115 Mathematical Concepts I (3) and MATH 116 Mathematical Concepts II (3)

Or MATH 131 Calculus I (4) and either MATH 115 Mathematical Concepts I (3) or MATH 116

Mathematical Concepts II (3)

Or MATH 132 Calculus II (4) and either MATH 115 Mathematical Concepts I (3) or MATH 116

Mathematical Concepts II (3)

NASC 110 Concepts in Natural Science with Lab (4)

One additional science course (3)

3. Complete a teacher licensure endorsement program in one of the following areas (please see the education department program guides for specific courses in each endorsement program):

Elementary (K-6 & K-8)	
101	K-12 Athletic Coach
102	K-6 Elem Classroom Teacher
104	K-12 ESL Teacher
113	K-8 Art
119	K-8 English/Lang. Arts
123	K-8 French
125	K-8 German
133	K-8 Spanish
137	K-8 Health
142	K-8 Mathematics
144	K-8 Music
146	K-8 Physical Education
148	K-8 Reading
150	K-8 Science – Basic
164	K-8 Social Studies
167	K-8 Speech Comm/Theater
260	K-8 Instructional Strat I
421	5-8 Algebra for H.S. Cr.
975	K-8 STEM
1001	Birth- 3 rd grade Early Childhood Inclusive
1821	5-8 M.S. Language Arts
1822	5-8 M.S. Mathematics
1823	5-8 M.S. Science
1824	5-8 M.S. Social Studies

EDUCATION- TEACHER LICENSURE

K-12 ART, MUSIC, PE/HEALTH

Faculty

Melissa McAninch (chair), Jennifer Diers (director), Erin Durflinger, Alan Hastings, Tamara Masters, Tamala Strawser, Julianne Taylor, Taylor Weldon

Statement of philosophy

For general information about Central's Education Department and teacher education programs, please consult the "Education – Elementary" section of this catalog.

Program approval

The Central College teacher education program is approved by the Iowa Department of Education. Students successfully completing one of the prescribed programs may be considered candidates for an Iowa Teaching License and is endorsed according to the type of program completed.

The credentials of Central College are respected outside Iowa, but students desiring to teach in any other state should be acquainted with the professional requirements of the state in question as early as possible in their college career. Any student who is seeking Iowa licensure with the intent of also meeting the licensure requirements of another state should consult with the Department of Education in that state.

Admission and retention requirements

Application for the teacher education program is expected after completing EDUC 110, 135, and 181. Candidates are continually evaluated throughout the program to ensure appropriate progression on departmental standards and are formally reviewed by the full department at the point of admission, prior to student teaching and before application for licensure.

Admission and retention in the teacher education program includes the following criteria:

1. Maintenance of a cumulative grade point average of 2.7;
2. Attainment of a minimum grade of "C" in all courses with the EDUC prefix;
3. Achievement of major program grade point average requirements or proficiencies (based on content area);
4. Successful completion of field experience assignments;
5. Successful completion of departmental benchmark assignments;
6. Demonstration of Central College teacher candidate dispositions;
7. Demonstration of expertise in content and effective oral and written communication;
8. Recommendation of the major department;

Study abroad opportunities

The education department encourages students to consider the advantages of study abroad. Internships and programs of study in teacher education can be explored as growth opportunities.

Endorsements and special programs for Iowa licensure

Licensure for grades K-12 is granted for three areas at Central College: art, music, and health/PE. Teachers in these areas must complete teaching licensure and education program requirements for K-12 as well as completion of a major in one of the three areas above.

Program completion is not final and a recommendation for a K-12 teaching license will not be granted until the teaching candidate has met the following requirements:

1. Completion of a B.A. or B.S.
2. Attainment of a minimum grade of "C" in all courses with an EDUC prefix
3. Attainment of final ratings of "Meets Standard" in at least eight of the ten overall ratings of InTASC standards. An overall rating of "unsatisfactory" in any standard or disposition will disqualify the teaching candidate from the recommendation for licensure.
4. Demonstrate "Meets Standard" in six of the seven teaching dispositions. An overall rating of "unsatisfactory" in any standard or disposition will disqualify the teaching candidate from the recommendation for licensure.
5. Attainment of "Meets Standard" in all assessed areas on the Senior Showcase rubric
6. Completion of all requirements in the education, including student teaching
7. Completion of all support courses from various departments as advised by the Education Department to meet licensure & endorsement requirements, individual interest, and/or need

8. Attainment of “Meets Standard” in all assessed areas on the Senior Showcase rubric
9. Recommendation for licensure from the Education Department voting faculty members

Upon successful completion of these requirements, the graduate is recommended to the Iowa Board of Educational Examiners for a teaching license.

K-12 Education Licensure Program

1. Complete all of the following (41 credits) with a “C” or better in each course:

- EDUC 110 Foundations of Education (3)
- EDUC 135 Children with Exceptionalities (3)
- EDUC 181 Developmental Psychology (3)
- EDUC 215 Human Relations (3)
- EDUC 240 Teaching, Learning and Assessment (3)
- EDUC 342 Reading in the Content Area – Secondary (1)
- EDUC 374 Behavior and Classroom Management (3)
- EDUC 450 General Secondary Methods (3)
- EDUC 455 Advanced Integration of Technology in Education – Secondary (1)
- EDUC 466 Elementary Student Teaching in Subject Area (6)
- EDUC 476 Secondary Student Teaching in Subject Area (6)
- EDUC 486 Professional Development Seminar-Secondary (2)

AND

EDUC 312 Methods of Teaching Art in Elementary Schools (2) AND EDUC 315 Methods of Teaching Art in Secondary Schools (2)

OR

EDUC 313 Methods of Teaching Music in Elementary Schools (3) AND EDUC 316 Teaching Choral and Instrumental Music in Secondary Schools (2)

OR

EDUC 311 Methods of Health and Physical Education in Elementary Schools (2) AND EDUC 314 Methods of Teaching Health and Physical Education in Secondary Schools (2)

2. (Complete BOTH the elementary methods course and the secondary methods course associated with the desired endorsement--4-5 credits)

K-12 Endorsements

Complete all requirements of one of the following Central academic majors (shown below, right) leading to a corresponding teaching endorsement (shown below, left):

Teaching Endorsement(s)	Corresponding Central Major
K-8 and 5-12 Health and Physical Education	Kinesiology
K-8 and 5-12 Music	Instrumental Music Education
K-8 and 5-12 Music	Vocal Music Education
K-8 and 5-12 Art	Art

EDUCATION- TEACHER LICENSURE

SECONDARY EDUCATION

Faculty

Melissa McAninch (chair), Jennifer Diers (director), Erin Durlinger, Alan Hastings, Tamara Masters, Tamala Strawser, Julianne Taylor, Taylor Weldon

Statement of philosophy

For general information about Central's Education Department and teacher education programs, please consult the "Education – Elementary" section of this catalog.

Program approval

The Central College teacher education program is approved by the Iowa Department of Education. Students successfully completing one of the prescribed programs may be considered candidates for an Iowa Teaching License and is endorsed according to the type of program completed.

The credentials of Central College are respected outside Iowa, but students desiring to teach in any other state should be acquainted with the professional requirements of the state in question as early as possible in their college career. Any student who is seeking Iowa licensure with the intent of also meeting the licensure requirements of another state should consult with the Department of Education in that state.

Admission and retention requirements

Application for the teacher education program is expected after completing EDUC 110, 135, and 181. Candidates are continually evaluated throughout the program to ensure appropriate progression on departmental standards and are formally reviewed by the full department at the point of admission, prior to student teaching and before application for licensure.

Admission and retention in the teacher education program includes the following criteria:

1. Maintenance of a cumulative grade point average of 2.7;
2. Attainment of a minimum grade of "C" in all courses with the EDUC prefix;
3. Successful completion of all observations and field experiences;
4. Successful completion of departmental benchmark assignments;
5. Demonstration of Central College teacher candidate dispositions;
6. Demonstration of expertise in content and effective oral and written communication;
7. Achievement of major program grade point average requirements or proficiencies (based on content area)
8. Recommendation of the major department

Study abroad opportunities

The education department encourages students to consider the advantages of study abroad. Internships and programs of study in teacher education can be explored as growth opportunities.

Endorsements and special programs for Iowa licensure

Teachers at the secondary level may teach in their endorsement area(s) in grades 5-12.

Program completion is not final and a recommendation for a K-12 teaching license will not be granted until the teaching candidate has met the following requirements:

1. Completion of a B.A. or B.S.
2. Attainment of a minimum grade of "C" in all courses with an EDUC prefix
3. Attainment of final ratings of "Meets Standard" in at least eight of the ten overall ratings of InTASC standards. An overall rating of "unsatisfactory" in any standard or disposition will disqualify the teaching candidate from the recommendation for licensure.
4. Demonstrate "Meets Standard" in six of the seven teaching dispositions. An overall rating of "unsatisfactory" in any standard or disposition will disqualify the teaching candidate from the recommendation for licensure.
5. Attainment of "Meets Standard" in all assessed areas on the Senior Showcase rubric
6. Completion of all requirements in the education, including student teaching
7. Completion of all support courses from various departments as advised by the Education Department to meet licensure & endorsement requirements, individual interest, and/or need

8. Attainment of “Meets Standard” in all assessed areas on the Senior Showcase rubric
9. Recommendation for licensure from the Education Department voting faculty members

Upon successful completion of these requirements, the graduate is recommended to the Iowa Board of Educational Examiners for a teaching license.

Secondary Education Licensure Program (7-12)

1. Complete all of the following (40 credits) with a “C” or better in each course:

EDUC 110	Foundations of Education (3)
EDUC 135	Children with Exceptionalities (3)
EDUC 181	Developmental Psychology (3)
EDUC 215	Human Relations (3)
EDUC 240	Teaching, Learning and Assessment (3)
EDUC 342	Reading in the Content Area – Secondary (1)
EDUC 374	Behavior and Classroom Management (3)
EDUC 384	Field Experience in Secondary Education (1)
EDUC 450	General Secondary Methods (3)
EDUC 451	Secondary Special Methods (1)
EDUC 455	Advanced Integration of Technology in Education – Secondary (1)
EDUC 470	Secondary Student Teaching (12)
EDUC 486	Professional Development Seminar-Secondary (2)

Secondary Endorsement Areas (5-12)

Possible Secondary endorsement areas are listed below, but students should communicate with the Education Department as to their intent in obtaining such endorsement.

Secondary (5-12 & K-12)	
101	K-12 Athletic Coach
104	K-12 ESL Teacher
114	5-12 Art
120	5-12 English/Lang Arts
124	5-12 French
126	5-12 German
134	5-12 Spanish
138	5-12 Health
143	5-12 Mathematics
145	5-12 Music
147	5-12 Physical Education
151	5-12 Biological Science
152	5-12 Chemistry
153	5-12 Earth Science
154	5-12 Basic Science
156	5-12 Physics
157	5-12 American Government
158	5-12 American History
160	5-12 Economics
161	5-12 Geography
163	5-12 Psychology
165	5-12 Sociology
166	5-12 World History
168	5-12 Speech Com/Theatre
261	5-12 Instructional Strat I
975	5-8 STEM
1171	5-12 Business – All

ENGINEERING

Faculty

Wendy Weber (chair), Chad Garber, Elizabeth Golovatski, Viktor Martisovits, Pavrithra Premaratne, Alexey Pronin, Puneet Vishwakarma

Statement of philosophy

Students can earn a Bachelor of Science degree in Engineering which broadly prepares them for a career at the interface of mechanical and electrical engineering. Building on the liberal arts ethos of the institution, this degree incorporates substantial course work in physics and other sciences with the application of engineering principles. This education provides each student the fundamentals to enter the workforce immediately after graduation or attend graduate school and the skills to quickly adapt and learn for a quickly evolving society. In addition to the requirements below, students are strongly encouraged and supported to complete internships in engineering at local, national and international locations. Through the completion of this work students will achieve the following general outcomes in alignment with the Accreditation Board for Engineering and Technology (ABET):

- an ability to apply knowledge of mathematics, science, and engineering
- an ability to design and conduct experiments, as well as to analyze and interpret data
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- an ability to function on multidisciplinary teams
- an ability to identify, formulate, and solve engineering problems
- an understanding of professional and ethical responsibility
- an ability to communicate effectively
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- a recognition of the need for, and an ability to engage in life-long learning
- a knowledge of contemporary issues
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

Study abroad opportunities

Students majoring in engineering are able to study abroad around the globe with careful planning, especially during the summer. International internships might be available at some study abroad sites. Students are encouraged to consult with an academic advisor while planning to go abroad.

Major Communication Skills

The department believes that it is important that students in engineering are able to listen, speak, read, and write within the discipline. Many courses throughout the major include activities evaluating students' communication skills. The final evaluation will occur in ENGR 485 Capstone Design I and ENGR 486 Capstone Design II.

Technology Skills

Students must achieve competency in Matlab and engineering graphics prior to the second semester of their sophomore year and the first semester of their junior year, respectively. This work can be completed external to Central College or completed via the following two courses: ENGR 111 Engineering Graphics and ENGR 112 Matlab for Engineers.

Engineering Major Requirements (97 s.h.)

1. Complete all of the following:

- | | |
|----------|------------------------------------|
| ENGR 111 | Engineering Graphics (2) |
| ENGR 112 | Matlab for Engineers (2) |
| ENGR 211 | Statics (3) |
| ENGR 212 | Dynamics (3) |
| ENGR 213 | Strength of Materials (3) |
| ENGR 214 | Engineering Materials with Lab (3) |
| ENGR 221 | Electric Circuits (3) |
| ENGR 222 | Electronic Devices with Lab (4) |
| ENGR 311 | Thermodynamics (3) |
| ENGR 312 | Fluid Mechanics (3) |
| ENGR 313 | Theory of Machines (3) |

ENGR 314	Heat Transfer with Lab (4)
ENGR 321	Electromagnetism (3)
ENGR 322	Signals and Systems with Lab (4)
ENGR 411	Dynamic Systems and Control with Lab (3)
ENGR 421	Digital Control Systems (3)
ENGR 485	Capstone Design I (1)
ENGR 486	Capstone Design II (3)
PHYS 111	General Physics I with Lab (5)
PHYS 112	General Physics II with Lab (5)
PHYS 215	Theoretical and Experimental Methods (2)
PHYS 216	Waves (2)
PHYS 225	Modern Physics I (3)
MATH 131	Calculus I (4)
MATH 132	Calculus II (4)
MATH 231	Multivariable Calculus (3)
MATH 250	Differential Equations (3)
CHEM 111	General Chemistry with Lab (4)

- 2. Complete an additional 6 s.h. of ENGR 430.**
- 3. Complete an additional 3 s.h. of PHYS courses numbered 211 or above.**

ENGLISH

Faculty

Mary Stark (chair), Valerie Billing, Lance Dyzak, Kate Nesbit

Statement of philosophy

The English program enriches academic quality at Central College through traditional literary studies and innovative teaching and research across disciplines. We foster close reading, critical thinking, strong writing, and intellectual and artistic creativity in all of our courses. In English courses at Central College, students explore the self, learn about others, and seek social change—while also developing a diverse and practical skill set applicable to a wide range of careers.

Here at Central, we offer a distinctive approach to the study and craft of literature, an approach informed by four overarching commitments:

1. We believe in civic engagement in global and local contexts. Our classes develop strong commitments to sustainability, social justice, and service-learning.
2. Second, we believe the study of literature and creative writing produces agile professionals. Central College graduates in English have thrived in fields as diverse as journalism, architecture, business management, education, law, medicine, public administration, and library science.
3. Third, we are committed to deepening intercultural and international learning, through courses that cover a broad range of geographical and cultural territories. We prioritize global and postcolonial literature, as well as literatures from minoritized communities in the US.
4. Finally, we see literature as the nexus of interdisciplinary learning. We explore connections between literature, science, aesthetics, history, gender studies, and cultural studies. Also, through supporting Central College's Core Curriculum, the English program supports students across the college as they seek to become strong critical thinkers, thoughtful readers, and compelling writers.

Major Communication Skills

The English program guarantees personal mentorship of student writing both in the classroom and in a distinctive portfolio review process. When students declare their intent to major in English, the department requests a portfolio of at least three papers that demonstrate developing close reading and argumentation. Majors must submit a second portfolio of at least five papers that demonstrate mastery of critical reading, engagement with research, and style in their senior year for the final portfolio review. English faculty meet as a department to discuss portfolios and return detailed feedback to each student on communication strengths and areas for improvement. The combination of individual attention from professors and the collective opinion of the English faculty on student writing helps our majors understand their writing process and grow increasingly reflective about the ways they might continue to improve.

English Major Requirements (40 credit minimum)

1. Take all of the following required courses:

- | | |
|----------|---|
| ENGL 160 | The Literary Imagination (4) |
| | Or an additional survey course or course from genre and issue studies (3-4) |
| ENGL 180 | The Reader's Toolbox (3) |
| ENGL 346 | Discovering Shakespeare (3) |
| ENGL 425 | Seminar in Literary Studies (4) |

2. Take two of the following surveys in British and American Literature:

- | | |
|----------|--|
| ENGL 236 | The American Experiment, Origins-1890 (3) |
| ENGL 237 | The American Experiment, 1890- Present (3) |
| ENGL 251 | Monsters and Monstrosity in English Literature, 800-1785 (3) |
| ENGL 252 | The Haunted House of British Literature, 1785- Present (3) |

3. Take six of the following courses, at least 2 at the 300-level:

- | | |
|----------|--|
| ENGL 140 | Introduction to Creative Writing (4) |
| ENGL 212 | Caribbean Literature (3) |
| ENGL 213 | Literature, Environment, and Ecology (3) |
| ENGL 214 | Literature by Women (4) |
| ENGL 215 | African-American Literature (4) |
| ENGL 216 | LGBTQ+ Literature and Culture (3) |

ENGL 217	Literature and Film of the Middle East (4)
ENGL 240	The Personal Essay (4)
ENGL 241	Short Story Writing (4)
ENGL 243	Writing Oral Histories (4)
ENGL 246	Writing for Non-Profit Organizations (4)
ENGL 270	Illness and Health in Literature (4)
ENGL 361	World Literature (4)
ENGL 378	Literary Topics (4)

English Major with Additional Emphasis in Writing (54 credit minimum)

Note: Students must declare their intention to major in English with Writing Emphasis no later than the end of their third year.

1. Complete **all** requirements for the English major listed above (40 credits)
2. Complete **three** of the following (in addition to those taken for the English major):

ANTH 375	Ethnographic Writing (4)
ENGL 140	Introduction to Creative Writing (4)
ENGL 240	The Personal Essay (4)
ENGL 241	Short Story Writing (4)
ENGL 243	Writing Oral Histories (4)
ENGL 244	Professional Writing (3)
ENGL 246	Writing for Non-Profit Organizations (4)
3. Complete ENGL 497 Internship in Writing (3)

English Minor Requirements (19 credit minimum)

1. Take **one** of the following historical surveys:

ENGL 236	The American Experiment, Origins- 1890 (3)
ENGL 237	The American Experiment, 1890- Present (3)
ENGL 251	Monsters and Monstrosity in English Literature, 800-1785 (3)
ENGL 252	The Haunted House of British Literature, 1785- Present (3)
2. Take **four** of the following electives, at least one at the 300-level:

ENGL 140	Introduction to Creative Writing (4)
ENGL 160	The Literary Imagination (4)
ENGL 180	The Reader's Toolbox (3)
ENGL 212	Caribbean Literature (3)
ENGL 213	Literature, Environment, and Ecology (3)
ENGL 214	Literature by Women (4)
ENGL 215	African-American Literature (4)
ENGL 216	LGBTQ+ Literature and Culture (3)
ENGL 217	Literature and Film of the Middle East (4)
ENGL 240	The Personal Essay (4)
ENGL 241	Short Story Writing (4)
ENGL 243	Writing Oral Histories (4)
ENGL 246	Writing for Non-Profit Organizations (4)
ENGL 270	Illness and Health in Literature (4)
ENGL 361	World Literature (4)
ENGL 378	Literary Topics (4)
3. Take **one** of the following:

ENGL 346	Discovering Shakespeare (3)
ENGL 425	Seminar in Literary Studies (4)

Note: Students seeking teaching licensure should consult with the Education Department regarding additional required courses.

Writing Minor Requirements (17 credit minimum)

1. Complete five of the following:

- ENGL 240 The Personal Essay (4)
- ENGL 241 Short Story Writing (4)
- ENGL 243 Writing Oral Histories (4)
- ENGL 244 Professional Writing (3)
- ENGL 246 Writing for Non-Profit Organizations (4)
- ENGL 497 Internship in Writing (3)

English courses for licensure in secondary education

Take all of the following:

- ENGL 222 Literature for Young Adults (1)
 - ENGL 320 Teaching Writing (2)
 - EDUC 231 Teaching English Language Learners (3)
 - EDUC 451 Secondary Special Methods (1)
 - COMM 160 Communication in Everyday Life (3)
- Plus 12 credits of Secondary Student Teaching

The English department will not recommend for teacher licensure students whose grade average within their English courses is below 3.00. The department has advised the teacher education committee that such students should be denied admission to or be dropped from the certification process until grades in English have been brought up to 3.00.

Please check with the education department for any other specific requirements.

ENTREPRENEURSHIP

Faculty

TBD (director), Kate Nesbit, Maggie Schlerman, Julie Summers

Statement of Philosophy

The entrepreneurship minor allows students of all academic disciplines to develop an entrepreneurial mindset. This enables students to envision things that don't currently exist, identify problems worth solving, and develop an ability to affect change in a positive manner. This may include the creation of a new business venture, serving as an intrapreneur in a corporate setting or solving a community problem as a social entrepreneur. In each setting, the solution to any problem calls for specific skills, which we have defined as our entrepreneurship program outcomes:

- The ability to recognize opportunities.
- The ability to capitalize on these opportunities by generating new ideas and marshaling resources.
- The ability to think in a creative and critical manner.
- The ability to create and operate a new venture.

Students will gain these skills through a highly experiential, hands-on approach coupled with the guidance of mentors.

Minor Restriction

A student cannot declare both the Entrepreneurship Minor and the Not-for-Profit Minor.

Entrepreneurship Minor Requirements (22 credit minimum)

3. Complete all of the following:

ENTR 215	The Entrepreneurial Mindset (3)
ENTR 315	Advanced Entrepreneurship: Startup Semester (3)
BMGT 271	Principles of Marketing (3)
BMGT 311	Principles of Management (3)
BMGT 335	Not-For-Profit Management (3)

4. Complete one of the following:

ACCT 241	Introduction to Financial Accounting (3)
ENGL 246	Writing for Non-Profit Organizations (4)

5. Complete one of the following:

BMGT 231	Business Law I (3)
BMGT 375	Marketing Research (3)
GEOG 320	Principles of GIS with Lab (3)

6. Complete an internship or experiential opportunity pre-approved by the entrepreneurship director (1-3 credits)

ENVIRONMENTAL AND SUSTAINABILITY STUDIES

Faculty

Anya Butt (director), Russ Benedict, Ashley Garr, Lee Macomber, Tuan Nguyen, Paul Weihe, Jim Zaffiro

Statement of Philosophy

Environmental studies examines the relationship of science, society and nature in a world with a focus on sustainability. Properly addressing environmental problems requires the ability to analyze complex systems and explore solutions within the socio-cultural, economic and political decision-making process. This major provides students with a strong grounding in the three legs of sustainability: an understanding of economics, politics, and the relevant scientific aspects for constructively solving problems through an interdisciplinary approach.

Students shape their major by selecting a focus either on a more science oriented or a more socio-political oriented major and supplement it with diverse electives. A focus on the socio-economic and political aspects in environmental studies enables students to help properly define sustainable resource use through an understanding of the science and environmental relationships within the debates at the global, national and local levels. A focus on the science involved in environmental issues enables students to gain a comprehensive ability to address these issues within an applied context. Course work is enriched by supervised independent research, career-focused internships, experiential and service-learning opportunities. Central's extensive network of internship opportunities provide students with invaluable hands-on experience. Strongly recommended is at least one semester of study abroad.

The Environmental Studies major is one component of Central's commitment to becoming a leader in sustainability education, along with the Global Sustainability program. Both programs focus on addressing global issues that arise due to the scarcity of resources on our earth and efforts by humanity to balance our needs with those of future generations. Due to the commonalities in courses and focus between the Environmental Studies program and the Global Sustainability minor, students are not allowed to declare major/minors simultaneously in these programs.

Career opportunities in environmental science are varied and increasing. Due to their strong backgrounds in the sciences, the social sciences and GIS, environmental studies and sustainability graduates have career opportunities in sustainability focused careers, as well as a diverse variety of positions in environmental protection and policy. This includes companies looking for entry level individuals with strong analytical skills for water, air, biological or soil analyses, or federal, local or state agencies focused on habitat monitoring, restoration, and delineation; as well as careers focused on environmental education and technical writing about environmental issues.

Major Communication Skills

It is essential for majors to be able to effectively speak, read, write and think critically within the context of their ENVS course work. For this reason, many required courses and electives include assignments and activities that evaluate students' communication skills proficiency. Evaluation of students' communication skills formally occurs in ENVS 380 Environmental Studies Seminar and ENVS 480 Environmental Studies Senior Seminar. Two requirements of these common capstone course are a major paper and an oral public presentation.

Major/Minor restrictions

Students planning to major or minor in Environmental Studies may not minor in Global Sustainability.

Environmental and Sustainability Studies Major Requirements (52-56 credits)

1. Complete all of the following:

BIOL 130	Diversity of Life with Lab (4)
ECON 112	Principles of Microeconomics (3)
ENVS 120	Introduction to Environmental Science with Lab (4)
ENVS 380	Environmental Studies Seminar (3)
ENVS 480	Environmental Studies Senior Seminar (1)
GEOG 320	Principles of GIS with Lab (3)

2. Complete one of the following:

GEOG 325	Planning for Sustainable Communities (4)
POLS 242	Global Sustainability Politics (4)

3. Complete one of the following socio-economic courses:

ECON 321	Environmental Economics (3)
ECON 329	Economic Development (3)
GEOG 225	Geography of Sub-Saharan Africa (3)

POLS	241	International Political Economy (4)
SOC	335	Globalization & Development (4)

4. Complete one of the following:

COSC	110	Introduction to Computer Science (3)
BIOL	210	Epidemiology (3)
MATH	215	Applied Statistics (4)*
POLS	250	Methods of Political Research (4)

*MATH 105 may be substituted for MATH 215, but MATH 215 is the recommended statistics course for the major

5. Complete either Block A or Block B:**Block A**

CHEM	107	Introduction to Environmental Chemistry (3)
ECON	113	Principles of Macroeconomics (3)
GEOG	237	Physical Geography: Weather and Climate with Lab (4)

One course from:

POLS	233	American Environmental Politics and Policy (4)
HIST	237	American Environmental History (4)

Block B

BIOL	131	Introduction to Cells with Lab (4)
BIOL	229	Ecology and Evolution with Lab (4)
CHEM	111	General Chemistry with Lab (4)
CHEM	241	Analytical Chemistry with Lab (4)

6. Complete at least 10 s.h. of elective credit from the following (with at least 6 s.h. at the 200-level or above)

ANTH	260	Medical Anthropology (4)
BEHS	285	Not-for-Profit Seminar (1)
BEHS	397	Internship in Not-for-Profit Management (3)
BIOL	310	Tropical Ecology (1-4)
BIOL	324	Field Botany with Lab (4)
BIOL	342	Mammalogy with Lab (4)
BIOL	343	Ornithology with Lab (4)
BIOL	345	Limnology with Lab (4)
BIOL	350	Conservation Biology and Ecology of Iowa (4)
BIOL	361	Microbiology with Lab (4)
CHEM	221	Inorganic Chemistry with Lab (4)
CHEM	231	Organic Chemistry I with Lab (4)
CHEM	331	Organic Chemistry II with Lab (4)
CHEM	351	Biochemistry with Lab (4)
CHEM	372	Environmental Chemistry with Lab (3) (not regularly offered)
CHEM	442	Instrumental Analysis with Lab (4)
ENGL	213	Literature, Environment and Ecology (3)
ENGL	246	Writing for Non-profit Organizations (4)
ENVS	125	Geology and the Environment with Lab (3)
ENVS	240	Agriculture and Sustainability (3)
KIN	215	Introduction to Angling (3)
KIN	261	Community, Consumer and Global Health (3)
GEOG	110	Introduction to Geography (3)
GEOG	238	Physical Geography: Geomorphology with Lab (4)
GEOG	420	Advanced GIS with Lab (2)
GERM	362	Germany and the Environment (3) (not regularly offered)
PHIL	245	Environmental Ethics (4)
POLS	140	Introduction to International Politics (4)
POLS	344	International Law and Human Rights (4)
POLS	397	State and Local Environmental Project Review Internship (3)
PHYS	101	Introductory Physics I (4)
PHYS	102	Introductory Physics II with Lab (4)
	or	
		PHYS 111 General Physics I with Lab (5)
		PHYS 112 General Physics II with Lab (5)
PHYS	204	Energy and Environment (3)
SUST	125	Introduction to Global Sustainability (4)

300/400-level internship by arrangement and approval by the program director

LAS 410 courses by approval of the program director as appropriate

Note: Study abroad courses may also apply as electives pending approval by the program director.

Environmental Studies Minor Requirements (23-24 credits)

1. Complete all of the following:

ENVS 120 Introduction to Environmental Science with Lab (4)
GEOG 320 Principles of GIS with Lab (3)

2. Complete one of the following:

GEOG 325 Planning for Sustainable Communities (4)
POLS 242 Global Sustainability Politics (4)

3. Complete one of the following:

ECON 321 Environmental Economics (3)
ECON 329 Economic Development (3)
GEOG 225 Geography of Sub-Saharan Africa (3)
HIST 237 American Environmental History (4)
POLS 233 American Environmental Politics and Policy (4)
SOC 335 Globalization & Development (4)

4. Complete at least 9 credits of additional electives with the approval of the Environmental Science director (with 4 at or above the 200 level).

FRENCH AND FRANCOPHONE STUDIES

Faculty

Mary Stark (chair), Nicole Kaplan

Departmental statement of philosophy

The French and Francophone Studies program faculty believes that the ability to communicate (listen, speak, read and write) in another language is fundamental for attaining an understanding of the many cultures that make up the world. For significant intercultural understanding, students must also learn what members of other cultures consider worth talking about: their historical, artistic and literary heritage; their contemporary political, social and economic problems; and their basic customs and values.

French and Francophone course offerings are intended to build communication skills and insight into important cultural topics. All on-campus courses include sessions with native-speakers or advanced speakers of the target language and are supported by activities in the language, including the language house program and social activities. All courses aim to increase language proficiency and cultural awareness as well as to prepare students for an extended, off-campus immersion in a culture where the target language is spoken.

Teaching licensure

Students seeking teaching licensure must secure information from the department of Language, Literature and Communication and the department of education concerning departmental and state requirements. Requirements for students seeking teaching licensure are not necessarily identical to those of the general major/minor.

Foreign language credit by proficiency

For information on earning credit by proficiency in a foreign language, please see the "Credit by Proficiency" section of this catalog.

French and Francophone Studies major statement of philosophy

The study of French and Francophone cultures is by nature interdisciplinary, bringing together many themes that can be understood using a single language. Courses in the program address not only mastery of language skills, but also intercultural competence and knowledge of the people and places connected by the French language. Distinct courses bring together aspects of languages, culture, translation and business. Most classes are taught exclusively in French in order to maximize the opportunity for students to master the language. However, because a language and its culture are inextricably linked, the French and Francophone Studies program sees the study of language as encompassing much more than coursework. It also involves the opportunity to live in the French House, to have frequent contact with native French assistants and to live and study in France. Taking full advantage of the program prepares students for a broad range of options after graduation, among which are education, graduate school, and the world of international business.

Study abroad opportunities

It is strongly recommended that majors and students planning to teach French spend at least one semester studying abroad in a French-speaking country as approved by the department chair. All courses taught in French and offered at a chair approved study abroad site at the 200- 400 level apply toward the French major.

Major Communication Skills

All French and Francophone Studies majors will successfully complete a total of at least 35 credits at the 222 level and above.

Admission to the French and Francophone Studies Program

Students enrolling at Central beginning in Fall 2021 may no longer apply for admission or transfer into the French and Francophone Studies major.

French and Francophone Studies Major Requirements (35 credits):**1. Complete all of the following:**

- Take at least 29 credits at 222-level and above, or equivalent courses taken abroad.
- FREN 489 Senior Capstone in French (3).
- A minimum of 3 credits in another language (Spanish, German, Chinese, or approved language) at the appropriate level.
- One semester of study abroad in an approved French program (with department chair approval).

*Note: FREN 121, 122 and 221 (or proficiency) are prerequisites for FREN 222, but do not count toward the major

French and Francophone Studies Minor Requirements

- 1. A minimum of 3 credits of French or Francophone literature or culture (course to be approved by the French faculty)**
- 2. A total of at least 6 credits at the 300-level or above.**

GERMAN STUDIES

Faculty

Mary Stark (chair), Amy Young

Departmental statement of philosophy

The German Studies program faculty believes that the ability to communicate (listen, speak, read and write) in another language is fundamental for attaining an understanding of the many cultures that make up the world. For significant intercultural understanding, students must also learn what members of other cultures consider worth talking about: their historical, artistic and literary heritage; their contemporary political, social and economic problems; and their basic customs and values.

Modern language course offerings are intended to build basic communication skills and insight into important topics in literature and culture. All courses aim to increase language proficiency and cultural awareness as well as to prepare students for an extended, off-campus immersion in a culture where the target language is spoken.

Study abroad opportunities

All majors in the department of modern languages (especially those seeking secondary teaching licensure) are expected to spend one year – or at least one semester – abroad in a German-speaking country. Before departure, students should review with their advisor those courses offered abroad that can be used to meet major requirements, and file a preliminary plan of study with the advisor. Students must make effective use of their time and experience abroad in order to reach the proficiency levels required of the major. Students seeking a minor in the department are encouraged to study abroad as well.

Teaching licensure

Students seeking teaching licensure must secure information from the department of modern languages and the department of education concerning departmental and state requirements. Requirements for students seeking teaching licensure are not necessarily identical to those of the general major/minor.

Foreign language credit by proficiency

For information on earning credit by proficiency in a foreign language, please see the “Credit by Proficiency” section of this catalog.

German major statement of philosophy

Students completing the German Studies major may choose from three emphasis areas: literature, language or cultural history. At the heart of each student’s major program is study in a German-speaking country, majors are expected to demonstrate skills in German comparable to those of persons qualified to do advanced work at a German or American university. The ultimate aim of the program goes beyond the acquisition of linguistic competence, however, to laying the foundations for active and responsible world citizenship. German majors are encouraged to plan early for study abroad.

Major Communication Skills

All German majors will successfully complete significant written and oral work in one (or more) 300-400 level course.

Admission to the German Studies Program

Students enrolling at Central beginning in Fall 2021 may no longer apply for admission or transfer into the German Studies major.

German Studies Major Requirements (33 credits minimum):

Note: All majors are expected to study in Germany/Austria or a German-speaking country, and to have skills in German comparable to those of persons qualified to do advanced work and receive admission to a German university. Students are advised to confer with the department regarding the best sequence of course work to fulfill major requirements. Whenever possible, the civilization requirement should be met before going abroad.

1. Complete all of the following:

- A minimum of 30 credits in courses at the GERM 222- level and above, which must include GERM-489 Senior Capstone in German (1 credit).
- A minimum of 3 credits in another language (Spanish, French, Chinese, or approved language) at the appropriate level
- 1 semester of study abroad in a German-speaking country.

Non-major support courses

During the year abroad, majors may take support courses in Austrian culture and the civilization. The department can help students to choose the civilization and literature courses before going abroad that can count toward major requirements. On campus, majors are encouraged to start a second major or to get strong minors in areas of interest (e.g., business, communications, linguistics, various pre-professional curricula, etc.); students are particularly encouraged to pursue work in another language, literature or area of cultural studies.

Additional information

1. A second foreign language is required for the major and recommended for the minor.
2. Each incoming student must take a placement test before enrolling at her/his appropriate level of competence. Final placement decision is made by the department on the basis of previous language study and/or performance on a placement test. Usually the advisor can get a good preliminary recommendation from the department chair. During the initial three weeks of the first semester of study, the student may move to a higher or lower level according to the recommendation of the language instructor.
3. Students with prior foreign language knowledge will be granted advanced placement credit according to college policy. Students should consult with the department chair regarding the policy on which credits count toward graduation, the major and teacher certification.
4. Specific information on the requirements for the minor and/or the teaching major/minor in German can be secured from the department. Requirements for students seeking teaching certification are not necessarily identical with those of the general major/minor. The department is especially stringent in its expectation that candidates for teacher certification study abroad.
5. The department wishes to work closely with majors studying abroad; all students are asked to obtain statements on file with the department concerning specific offerings in Vienna that may count toward the major.

German Studies Minor Requirements (20 credits)

1. Complete all of the following (8 credits)

- | | |
|----------|---|
| GERM 121 | Beginning German I (or equivalent) (4) |
| GERM 122 | Beginning German II (or equivalent) (4) |

2. Complete at least two of the following (6 credits)

- | | |
|----------|-------------------------------|
| GERM 240 | The German Imagination (3) |
| HIST 210 | History of Modern Europe (4) |
| HIST 212 | World War I and II (4) |
| HIST 216 | German and Central Europe (4) |
| HIST 217 | Contemporary Europe (4) |

3. Complete at least 6 credits from the following courses or other courses as approved by German Studies faculty (6 credits)

- Any 300/400 level GERM course
- Any 300/400 level HIST course with a focus on one of more German- Speaking countries

Note: at least a10 total credits must be taken in GERM courses.

GLOBAL HEALTH

Faculty

Ellen Du Pré (director), Anya Butt

Statement of philosophy

As a member of the Heartland Global Health Consortium, Central College believes that we are responsible for producing global citizens who are, aware of the interconnections between health, development, environment, and social justice. As global citizens, we understand that health issues around the world have global impacts, as diseases can cross borders and the global economy can drive both health care policy and environmental conditions. This interdisciplinary minor program is designed to prepare students to understand and appreciate that health issues require solutions grounded in a holistic combination of globalization, policy, sustainability, and cultural and personal awareness. The required courses provide students with a global perspective on society and epidemiology.

Students choosing careers in all pre-health programs as well as public policy, planning, international studies, social work, anthropology, environmental studies, and health communications are well-served by this minor. Students are encouraged to study internationally to enhance their development as global citizens, and to pursue relevant internships.

Global Health Minor Requirements (21-25 credits):

1. Complete all of the following (9 credits)

BIOL	210	Epidemiology (3)
GEOG	210	Human Geography (4) or GEOG 215 Introduction to International Studies (3)
GEOG	320	Principles of GIS with Lab (3)

2. Complete one of the following (Globalization and Health focus, 3-4 credits)

ANTH	260	Medical Anthropology (4)
ANTH	363	Human Rights, Politics and Culture (4)
ANTH	370	Anthropology of Violence (4)
PSYC	240	Psychology of Gender (3)
SOC	335	Globalization and Development (4)
LAS	410	Courses by approval (3-4)

Approved service- learning project in a health agency by arrangement, minimum 3 credits

3. Complete one of the following (Policy focus, 3-4 credits)

ECON	321	Environmental Economics (3)
ECON	329	Economic Development (3)
POLS	140	Introduction of International Politics (4)
POLS	233	American Environmental Politics and Policy (4)
POLS	241	International Political Economy (4)
POLS	344	International Law and Human Rights (4)

4. Complete one of the following (Sustainability focus, 3-4 credits)

ENVS	120	Introduction to Environmental Science with Lab (4)
ENVS	240	Agriculture and Sustainability (3)
GEOG	325	Planning for Sustainable Communities (4)
GERM	362	Germany and the Environment (3)
PHYS	204	Energy and Environment (not offered regularly) (3)
POLS	242	Global Sustainability Politics (4)
SUS	125	Introduction to Global Sustainability (4)
LAS	410	Courses by approval (3-4)

5. Complete one of the following (Cultural and personal awareness focus, 3 credits)

COMM	276	Communicating in Health and Illness (3)
ENGL	213	Literature, Environment, and Ecology (3)
KIN	261	Community, Consumer and Global Health (3)
PHIL	121	Ethics (3)
PHIL	127	Meaning of Life (3)
PSYC	330	Multicultural Issues in Psychology (3)
SOC	225	Social Problems (3)
LAS	410	Courses by approval (3-4)

Experiential Learning and Internship Opportunities

As part of the minor, students are encouraged to engage in experiential learning through research, service-learning or internships in Iowa and elsewhere. This experience will help students better understand the various fields within global health they might pursue after graduation through career or graduate study. Students are encouraged to begin to work with faculty members who conduct research related to global health and to contact the Office of Career Development and Civic Engagement early in their college career.

GLOBAL SUSTAINABILITY

Faculty

Jim Zaffiro (director), Anya Butt, Paul Weihe

Statement of Philosophy:

Global sustainability is meeting the needs of Earth's living generations without compromising the ability of future generations to meet theirs. Sustainability education emphasizes the interconnectedness of ecological, political, economic, socio-cultural, and moral-ethical systems. Global sustainability education promotes active learning, trans-disciplinary integration, and synthesis of concepts, theories, and methods of inquiry, along with development of practical problem-solving skills.

Sustainability education helps students acquire and apply heightened knowledge of significant intergenerational issues and problems and solutions by raising awareness and understanding of how their personal and collective actions affect the sustainability of local and global systems. Many problems are global in scope, transcending national boundaries and requiring global solutions. Complex underlying local, national, and international political and economic institutions and processes structure and manage the research, policy debates, and international negotiations aimed at reaching agreements and finding ways to implement solutions for the problems themselves.

This integrative program is designed to offer all students, regardless of major or career aspirations, a means of acquiring some of the tools and practical experience they will need when they enter the work force, assume leadership positions in their communities, and deal with complex, interconnected problems on a scale never before faced by humans.

The Global Sustainability minor is one component of Central's commitment to becoming a leader in sustainability education, along with the Environmental Studies program. Both programs focus on addressing global issues that arise due to the scarcity of resources on our earth and the subsequent efforts by humanity to balance our needs with those of the future generations, and thus work in concert with one another.

Minor restrictions

Due to the commonalities in courses and focus between the Global Sustainability minor and the Environmental Studies program, students are not allowed to declare major/minors in both programs.

Global Sustainability Minor Requirements (21-23 credits)

1. Complete both of the following: (8 credits)

- | | |
|----------|--|
| ENVS 120 | Introduction to Environmental Science with Lab (4) |
| POLS 242 | Global Sustainability Politics (4) |

2. Complete an approved 283 or 383 Service Learning Module course, approved campus or community-based sustainability service project, internship, or supervised independent research project (1-3 credits)

3. Complete at least 12 credits from the approved lists of electives with at least 3 credits from each category and a minimum of 3 credits at the 300 level or above:

Ecological Systems Integrity (Complete at least **3 credits** of the following):

- | | |
|----------|--|
| BIOL 118 | Environmental Problems and Midwest Ecosystems with Lab (4) |
| BIOL 229 | Ecology and Evolution with Lab (4) |
| BIOL 310 | Tropical Ecology (1-4) |
| BIOL 315 | Aquatic Toxicology with Lab (4) |
| BIOL 345 | Limnology with Lab (4) |
| CHEM 107 | Introduction to Environmental Chemistry (3) |
| CHEM 372 | Environmental Chemistry with Lab (3) |
| EDUC 275 | Health, Safety and Nutrition (3) |
| ENVS 125 | Geology and the Environment with Lab (3) |
| KIN 215 | Introduction to Angling (3) |
| KIN 261 | Community, Consumer and Global Health (3) |
| GEOG 210 | Human Geography (4) |
| GEOG 320 | Principles of GIS with Lab (3) |

LAS	410	HIV and the AIDS Pandemic (4)
NASC	105	Science, Technology and Literature (3)
PHYS	204	Energy and Environment (3) (not offered regularly)

Ethical, Social and Cultural Integrity (Complete at least **3 credits** of the following):

ANTH	266	First Peoples of North America (3)
COMM	268	Intercultural Communication (3)
GEOG	215	Introduction to International Studies (3)
ENGL	213	Literature, Environment, and Ecology (3)
ENGL	270	Illness and Health in Literature (4)
ENGL	246	Writing for Non-Profit Organizations (4)
SOC	325	Social Movements (3)

Political and Economic Systems Equity (Complete at least **3 credits** of the following):

BEHS	285	Not-for-Profit Seminar (1)
BMGT	335	Not-for-Profit Management (3)
ECON	321	Environmental Economics (3)
ECON	329	Economic Development (3)
GERM	362	Germany and the Environment (3)
POLS	140	Introduction to International Politics (4)
POLS	233	American Environmental Politics and Policy (4)
POLS	241	International Political Economy (4)
POLS	344	International Law and Human Rights (4)
POLS	397	State and Local Environmental Project Review Internship (3)
SOC	335	Globalization & Development (4)

Notes:

- Students planning to major or minor in Environmental Studies may not minor in Global Sustainability
- Students interested in Global Sustainability are encouraged to explore Environmental Studies
- Students completing this minor are strongly encouraged to choose an LAS capstone course related to their particular areas of interest within the minor
- Study abroad courses may apply as electives with permission from the director(s)

HISTORY

Faculty

Lori Witt (chair), Mark Barloon, Timothy Olin

Statement of philosophy

One of the most important paths to understanding ourselves and our current world is through exploring the past. History tells us where we came from and who we are. It illuminates the people, forces and structures which have shaped us, both as global and national citizens and as individuals living and working in communities.

The history major is structured to provide students with a strong foundation in historical knowledge and interpretation, which are essential for informed citizenship in global, national and local communities, and for understanding ourselves. The required courses provide students with an opportunity to dig into the past, surveying the history of the world and doing their own historical research, reasoning, and writing. The major allows students to combine their historical interests with courses in other disciplines, enabling them to pursue careers of their choice or to undertake graduate study in history. For students desiring to teach at the junior high or high school level, a distinguishing feature of the Central History major is that it offers certification for students in both American History and World History, as well as American Government.

Study abroad opportunities

All history courses taken abroad can be used for the major. Study abroad is strongly encouraged for history majors.

Major Communication Skills

Evaluation of communication skills is based on each student's performance in HIST 485 and 486. This two-course sequence requires extensive writing and reading in addition to the development of research skills, and the student must successfully complete each course to obtain departmental recommendation for graduation with a history major. Preliminary evaluations of communication skills are made when evaluating each student's performance in the 100-level courses. Each student's skills will be continually monitored through subsequent course work in the major.

History Major Requirements (38-42 credits)

1. Complete *one* of the following courses:

- HIST 125 World History to 1500 (3)
- HIST 126 World History since 1500 (3)

Note: The following courses may count with permission of the History program. Those seeking teacher licensure should get EDUC department approval in advance.

- Or HIST 100T TE Western Civilization: Ancient to Early Modern (3-4)
- Or HIST 100T TE Western Civilization: Early Modern to Present (3-4)
- Or HIST 100AP AP European History (3)

2. Complete *one* of the following courses:

- HIST 130 United States to 1877 (3)
- HIST 131 United States since 1877 (3)
- HIST 132 Issues in American History (3) (topic varies)

3. Complete 8 credits of world history:

- HIST 210 History of Modern Europe (4)
- HIST 212 World War I and II (4)
- HIST 213 Russia and the USSR (4)
- HIST 215 The Balkans: Between East and West (4)
- HIST 216 Germany and Central Europe (4)
- HIST 217 Contemporary Europe (4)
- HIST 220 Middle Eastern Civilization (3)
- HIST 250 Latin American Civilization (4)
- HIST 280 Modern African Civilization (4)

Students may count 1 of the following towards their History major. Students seeking Secondary Education endorsements should consult with their advisor.

- REL 252 The Reformation (3)
- REL 254 The Early Church (4)

4. Complete 8 credits of American History:

HIST	230	Colonization and American Revolution: 1607-1787 (4)
HIST	231	American Expansion and Civil War: 1787-1877 (4)
HIST	232	America's Rise to Power: 1877-1945 (4)
HIST	233	The Fifties & Sixties: US History: 1945-1975 (4)
HIST	234	Recent United States: 1975- Present (4)
HIST	235	The Immigrant Experience (4)
HIST	237	American Environmental History (4)

Students may count 1 of the following towards their History major. Students seeking Secondary Education endorsements should consult with their advisor.

POLS	211	American Political Parties (4)
POLS	235	The U.S. in World Affairs (4)
POLS	361	American Political Philosophy (4)

5. Choose either Track A or Track B**A. History Majors not seeking Secondary Education endorsement.****Complete 8 credits of the following:**

HIST	310	Studies in World History (4) (topic varies)
HIST	330	Studies in American History (4) (topic varies)

Note: Each of these courses may be repeated for credit with different topics. With advisor approval, students seeking secondary endorsement are encouraged to take these classes and substitute them for a class in section 3 or 4.

B. History Majors seeking Secondary Education endorsements. (Students must be admitted to the Teacher Education Program.)**Complete 3 classes in American government:**

POLS	110	Introduction to American Politics (4)
POLS	211	American Political Parties (4)
POLS	212	Congress (4)
POLS	213	Courts (4)
POLS	214	The Presidency (4)
POLS	215	The Politics of State and Local Governments (4)
POLS	216	Political Behavior: Political Participation, Elections, and Media (4)
POLS	287	Presidential Inauguration Seminar (3)
POLS	316	Presidential Elections (4)
POLS	361	American Political Philosophy (4)

Or other approved American government course

6. Complete all of the following:

HIST	485	Historiography Seminar (4)
HIST	486	History Research Seminar (4)

Note: HIST 397/497 Internship: For History majors not seeking Secondary Education endorsements, a maximum of 4 credits of internship will be allowed to count in sections 3 or 4, at the discretion of the Department Chair.

Note: History majors seeking the Social Science Basic Endorsement can also gain courses toward additional endorsements beyond World History, American History, and American Government in Economics, Geography, Psychology, and Sociology. Students should consult with their advisor.

History Minor Requirements (22 credits)**1. Complete a minimum of 22 credits** including seven credits each of American and world history distributed as follows:

- Two HIST courses at the 100-level or above (6-8 credits)
- Three to four (12 credits required) HIST* courses 200-level or above. Up to 4 credits of HIST-397/497 may count.
- One HIST course at the 300-level or above (excluding HIST-397/497) (4 credits)

*Students may count up to four credits from the approved list of political science or religion courses noted within the history major requirements.

Note: The history minor will not meet the State of Iowa requirements for teaching certification in history as a minor field.

INFORMATION SYSTEMS

Faculty

Stephen Fyfe (director), Erik Insko, Mark Johnson, Graham Lemke, Tuan Nguyen, George Nwaogu, Maggie Schlerman, Julie Summers, Michael Thompson

Statement of philosophy

Are you interested in developing software systems or managing the information structure for an organization? Would you like to be a chief information officer someday? The information systems major at Central allows students to choose from an emphasis in accounting information systems (AIS), computer information systems (CIS), or management information systems (MIS). Graduates have entered graduate school and immediate employment as IT managers, web programmers, and information systems auditors.

Introductory courses for the information systems major introduce students to the fields of computer science and business management, which are the building blocks for the interdisciplinary field of information systems. The course, Introduction to Information Management, provides a foundation to the field. Upper-level courses allow students to select an area of focus (such as accounting information systems, computer information systems, or management information systems) and take courses related to that area.

Internships are strongly recommended. They may be obtained through locally or regionally located businesses and organizations, through study abroad, or through the Chicago Metropolitan Center. This experience provides the student with rich learning opportunities and puts course work into practice.

Major Communication Skills

Students majoring in Information Systems develop their communications skills in different ways depending on their emphasis. Accounting and management information systems majors take either COMM-160 or COMM-270; computer information systems majors develop their communication skills within the various computer science classes taken to complete the emphasis.

Major/minor restrictions

Information systems majors cannot also declare a minor in either business management or computer science. Information systems majors with the AIS emphasis cannot also declare a major or minor in accounting. Information systems majors with the CIS emphasis cannot also declare a computer science major. Information systems majors with the MIS emphasis cannot also declare a business management major.

Information Systems Major Requirements (49-53 credit minimum)

1. Complete all of the following:

ACCT 241	Introduction to Financial Accounting (3)
ACCT 242	Introduction to Management Accounting (3)
BMGT 311	Principles of Management (3)
COSC 109	Introduction to Information Management (3)
COSC 110	Introduction to Computer Science (3)
COSC 130	Data Structures (3)
COSC 210	Database and the Web (4)
ECON 112	Principles of Microeconomics (3)
ECON 113	Principles of Macroeconomics (3)

2. Complete one of the following:

COSC 255	Programming: "Language" (2)
COSC 283/383	Service Learning Module (2)

3. Complete one of the following

MATH 105	Introduction to Statistics (4)
MATH 215	Applied Statistics (4)

4. Complete all requirements for one of the following emphases:

* *Accounting information systems (AIS) emphasis:*

ACCT 341	Intermediate Financial Accounting I (3)
ACCT 342	Intermediate Financial Accounting II (4)
ACCT 343	Advanced Management Accounting (3)

ACCT 347 Accounting Information Systems (3)
ACCT 442 Fraud Examination and Auditing (4)
COMM 160 Communication in Everyday Life (3) OR COMM 270 Public Speaking (4)

** Computer information systems (CIS) emphasis:*

COSC 345 Computer Systems (4)
COSC 346 Cybersecurity (4)
7 credits of elective COSC courses at the 200-level or higher, GEOG 320 Principles of GIS with Lab or DATA 440 Applied Machine Learning

** Management information systems (MIS) emphasis:*

BMGT 261 Principles of Finance (3)
BMGT 271 Principles of Marketing (3)
BMGT 381 Operations Management (3)
ECON 381 Research Methods in Economics (4)
COMM 160 Communication in Everyday Life (3) OR COMM 270 Public Speaking (4)

INTERNATIONAL AND GLOBAL STUDIES

Statement of Philosophy

International and global studies is an interdisciplinary major that explores the changing forces of globalization and investigates the responses by the actors and institutions (economic, political, cultural and societal) to this reconfiguring of global life. It develops a global understanding of historical and contemporary world issues and seeks to encourage cross-cultural sensitivity emphasizing the interrelatedness of cultural, societal, linguistic, political, economic, environmental and aesthetic issues in the world today. A common body of knowledge is established through a set core of courses integrated with a focus track, study abroad, language proficiency and culminating individualized capstone project. Students may choose to pursue their studies within a specific geographic region or may develop a custom focus area in global studies, international relations, cultural studies, global environment, political or economic development.

Declaration of International and Global Studies Major Students considering the International and Global Studies major or minor should work with an advisor early in their academic career to develop coursework to support their international and global studies interests. A student wishing to declare an International and Global Studies major must submit a proposal and Declaration of International and Global Studies form for the major to the registrar with the support of at least one supervising faculty advisor, typically by the college's published major declaration deadline, but no later than registration for the student's sixth semester of enrollment. The registrar will forward all International and Global Studies major proposals to the Curriculum Committee for the final approval process.

Study abroad

Students are required to enroll in at least one semester in an approved study abroad program. Because the overseas experience is so vital to proper preparation for active participation in an international environment, students should confer with their academic advisor early in their academic careers to plan for the best combination of on-campus and study abroad coursework to fulfill major requirements.

Major Communication Skills

The major communication skills is typically satisfied in the 300-400 level coursework and senior capstone.

Admission to the International and Global Studies Program

Students enrolling at Central beginning in Fall 2021 may no longer apply for admission or transfer into the International and Global Studies major.

International and Global Studies Major Requirements (40 credits plus language proficiency)

Note: Students are strongly encouraged to begin working with a major advisor early in their academic career.

1. Complete all of the following (16 credits):

ANTH	120	Introduction to Cultural Anthropology (3)
ECON	113	Principles of Macroeconomics (3)
GEOG	210	Human Geography (4)
GEOG	215	Introduction to International Studies (3)
POLS	140	Introduction to International Politics (4)

2. At the time of declaration, students will be required to design, specify and propose a focus/track. Complete 15 credits in a specific focus (i.e. regional, global studies, cultural studies, global environment, political, or economic development) area beyond the 100-level* and a minimum of nine credits of 300/400-level is required. Language courses numbered 322 or below may not be counted toward these 15 credits. *Students who select a geographical region as their focus area may count a 100-level survey course in that region toward the major.

Examples of International and Global Studies major foci:

Geographic region (i.e. Africa, Asia, Latin America, Middle East, Europe)

Cultural studies

Political or economic development

Global environment

International politics/relations

3. Complete 6 additional elective credits beyond the 100-level, chosen in consultation with the major advisor; however, courses in a second foreign language at any level may be included in this requirement. Language courses in the primary foreign language numbered 322 or below may not be counted toward this 6 credit requirement.

4. Capstone (minimum 3 credits) senior thesis or project. The capstone is not included in the nine credits of 300/400- level required for the focus area. The capstone may be a senior honors project, independent study, directed research or other culminating project and must be approved by the student's academic advisor and faculty director prior to the start of the semester of enrollment.

5. Demonstrate proficiency in a foreign language through the intermediate (222 or two years) level.

6. Study abroad for at least one semester. Students with a regional focus are required to study abroad in that region.

International and Global Studies Minor Requirements (18 credits plus language proficiency)

Declaration of International and Global Studies Minor. A student wishing to declare an International and Global Studies minor must submit a declaration of International and Global Studies minor form to the registrar with the support of at least one supervising faculty advisor by the college's published minor declaration deadline, but no later than registration for the student's final semester of enrollment. The Curriculum Committee chair, in consultation with the supervising advisor and registrar will approve International and Global Studies minor declarations.

Complete GEOG 215 Introduction to International Studies (3)

Complete three courses (9-10 credits) from:

ANTH 120	Introduction to Cultural Anthropology (3)
COMM 268	Intercultural Communication (3)
ECON 113	Principles of Macroeconomics (3)
GEOG 210	Human Geography (4)
POLS 140	Introduction to International Politics (4)

Complete six additional credits of elective at the 300-level or above either in a focus area or specific region(s). Language courses numbered 322 or below may not count.

Demonstrate proficiency in a foreign language through the intermediate (222 or two years) level.

Study abroad for at least one semester is highly recommended.

KINESIOLOGY

Faculty

John Roslien (chair), Adam Bradley, Leslie Duinink, Jim Fuller, Shelli Green, Kyle Johnson, David Pavlat (Strength and Conditioning program director and Personal Training program director), Monica Ruiz, Matt Sagar, Sara Shuger Fox, Katelin Valster

Statement of philosophy

Majors in Central's kinesiology program will master the science of human movement utilized in educational, fitness/wellness, sport/performance and therapeutic settings. Students become active learners and acquire the knowledge and skills necessary to meet the challenges of a dynamic world. Existing assessment tools, a comprehensive body of knowledge and communication skills are developed and utilized in a problem solving environment.

Graduates will know how to respond, adjust and adapt to human movement; analyze and evaluate individual physiology performance; design and assess exercise programs in the psychomotor domain; read, interpret and conduct research and have developed an ethic of accountability to improve oneself, interest others and the profession at large.

The Central College Kinesiology program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Council on Accreditation of Exercise Science (CoAES).

The Kinesiology department's Strength and Conditioning Program and Personal Training Program are a National Strength and Conditioning Association (NSCA) Education Recognition Program (ERP) School. The seal of approval is a commitment that the Kinesiology department makes to help students grow as strength and conditioning and personal training professionals.

Major Communication Skills

A communication skills endorsement from the kinesiology program indicates students have achieved college level mastery in both the written and verbal domain. Communication skills will be assessed using predetermined rubric tools in the following classes: KIN 111, KIN 149, KIN 151, KIN 254, KIN 257, KIN 334, KIN 460, and KIN 461. Students assessed as needing further development will be referred to the department chair for a prescriptive plan to improve their communication skills.

Major Restrictions

- Students may not declare majors in both Kinesiology and Strength and Conditioning.
- Students seeking a double major in Kinesiology and Biology may only count a maximum of 12 total credits in Biology or Chemistry towards the Kinesiology major elective requirement.

Kinesiology Major Requirements (48 credits)

1. Complete all of the following:

KIN 111	Essentials of Human Anatomy and Physiology with Lab (4)
KIN 149	Introduction to Kinesiology (3)
KIN 151	First Aid and Sports Injuries (3)
KIN 254	Human Anatomy and Kinesiology with Lab (4)
KIN 257	Fitness Assessment and Exercise Prescription with Lab (4)
KIN 334	Sports Nutrition (4)
KIN 460	Exercise Physiology (3)
KIN 461	Exercise Physiology Lab (2)

2. Choose 21 s.h. of electives beyond the 100 level with minimum of nine credits at the 300-level or above in KIN or the following: CHEM 231, CHEM 331, CHEM 351, BIOL 210, BIOL 221, BIOL 341, BIOL 360, EDUC 311, EDUC 314, MATH 215 or SC 372. (A maximum of 3 credits of 397 or 497 may count for the major.)

Teaching Licensure- Physical Education and Health

Students seeking licensure must complete all requirements for the Kinesiology major, plus the following Kinesiology elective courses. Student must also apply and be accepted into the Teacher Education Program and complete the education courses listed in the Education- Teaching Licensure for K-12 Art, Music, P.E./ Health portion of the catalog or as provided by the education department. Combined, these courses meet the endorsement content requirements for K-8 Physical Education (#146), 5-12 Physical Education (#147), K-8 Health (#137), and 5-12 Health (#138).

KIN	120	Theory and Practical Application of Health-Related Fitness (3)
KIN	212	Adapted Physical Education (3)
KIN	220	Personal Wellness (3)
KIN	260	Substance Abuse (3)
KIN	261	Community, Consumer, & Global Health (3)
KIN	462	Motor Learning (3)

Coaching Endorsement (#101: K-12 Athletic Coach)

A coaching endorsement is for students who are completing the requirement to be a licensed teacher.

Iowa Board of Educational Examiners (BOEE) Content Requirements:

Structure and Function of the Human Body

KIN 111 Essentials of Human Anatomy and Physiology with lab (4) – OR--

BIOL 201 Introduction to Human Anatomy and Physiology I with Lab (4)

Human Growth and Development of Children and Youth

EDUC 181 Developmental Psychology (3)

Theory of Coaching Interscholastic Athletics

KIN 213 Principles of Coaching (3)

Athletic Conditioning, Care and Prevention of Injuries, and First Aid

KIN 151 First Aid and Sports Injuries (3)

Completion of concussion training approved by the IHSAA or IGHSAU

KIN 151 First Aid and Sports Injuries (3)

Recommended courses:

KIN 254 Human Anatomy and Kinesiology with Lab (4)

KIN 462 Motor Learning (3)

Coaching Authorization

Students interested in coaching, who do not plan to obtain a teaching license, may receive a coaching authorization. These students are encouraged to visit the Iowa Board of Educational Examiners (BOEE) for current coaching information at <http://www.state.ia.us/boee>.

Kinesiology Minor Requirements (27 credits)

1. Complete all of the following:

KIN 111 Essentials of Human Anatomy and Physiology with Lab (4)

KIN 149 Introduction to Kinesiology (3)

KIN 151 First Aid and Sports Injuries (3)

KIN 254 Human Anatomy and Kinesiology with Lab (4)

KIN 257 Fitness Assessment and Exercise Prescription with Lab (4)

KIN 334 Sports Nutrition (4)

KIN 460 Exercise Physiology (3)

KIN 461 Exercise Physiology Lab (2)

MATHEMATICS

Faculty

Wendy Weber (chair), Russell Goodman, Erik Insko, Thomas Linton, Mark Mills

Department information

Mathematics, one of the keystones of the liberal arts, combines the study of patterns and abstract structures with the art of problem-solving. The ability to reason with quantitative information and solve intricate problems is, and will continue to be, a highly-valued skill. No less important is the ability to communicate technical material. The mathematics faculty is committed to developing these skills in all students.

All majors will study contemporary and classic branches of mathematics. In addition, faculty encourage students to gain breadth in the major by taking both theoretical and applied courses. Other course requirements are flexible, allowing students to obtain teacher certification, gain practical experience in an internship, or study abroad. Whether in teaching, in graduate school, or in the workplace, graduates with a liberal arts major in mathematics have the tools they need for success.

We offer three distinct majors: mathematics, mathematics with data science emphasis, and mathematics with secondary education emphasis.

Study abroad

Majors are encouraged to study abroad- and should consult mathematics faculty about when to go abroad.

Mathematics credit by proficiency

For information on earning credit by proficiency in mathematics, please see the "Credit by Proficiency" section of this catalog.

Major communication skills

The department believes it is essential that majors in mathematics are able to speak, read, write, and listen within the discipline. As such, many courses throughout the major include activities that evaluate students' ability to communicate.

Major/minor restrictions

Students interested in combining business and mathematics may want to consider the actuarial science major, but a mathematics major may not also declare a major in actuarial science. Students seeking a mathematics teaching endorsement should consult the education department. Students choosing the data science emphasis in mathematics may not declare a computer science major with a data science emphasis.

Mathematics Major Requirements (39 credits)

1. Complete all of the following:

MATH 131	Calculus I (4)
MATH 132	Calculus II (4)
MATH 160	Introductory Investigations in Mathematics (3)
MATH 220	Discrete Mathematics (3)
MATH 240	Linear Algebra (4)
COSC 110	Introduction to Computer Science (3)

2. Complete one of the following:

MATH 310	Geometry (3)
MATH 450	Studies in Theoretical Mathematics: topics (3)

3. Complete 15 credits of additional MATH courses numbered 215 and above, including DATA 210, with at least 9 credits at the 300- or 400- level.

Mathematics Major/Data Science Emphasis Requirements (43-44 credits)

1. Complete all of the following:

MATH 131	Calculus I (4)
MATH 132	Calculus II (4)
MATH 160	Introductory Investigations in Mathematics (3)
MATH 215	Applied Statistics (4)
MATH 220	Discrete Mathematics (3)
MATH 240	Linear Algebra (4)
MATH 330	Mathematical Modeling (3)
COSC 110	Introduction to Computer Science (3)
DATA 210	Introduction to Data Science (3)
DATA 310	Data Visualization (3)
DATA 440	Applied Machine Learning (3)

2. Complete one of the following:

MATH 310	Geometry (3)
MATH 450	Studies in Theoretical Mathematics: topics (3)

3. Complete one of the following:

COSC 130	Data Structures (3)
COSC 210	Database and the Web (4)

Mathematics Minor Requirements (21 credits)

1. Complete all of the following:

MATH 131	Calculus I (4)
MATH 132	Calculus II (4)
MATH 240	Linear Algebra (4)

2. Complete an additional 9 credits of MATH courses numbered 160 and above, with at least 3 credits at the 300- or 400- level.

Mathematics Major/Secondary Education Emphasis Requirements (40 credits)

The Analytical and Physical Science Department will not recommend for teacher licensure students whose grade point average within their mathematics and computer science courses is below 2.5. The department has advised the Education Department that such students should be denied admission to or be dropped from the teacher education program until their grade point average within the mathematics and computer science courses has been brought up to at least 2.5.

1. Complete all of the following:

MATH 131	Calculus I (4)
MATH 132	Calculus II (4)
MATH 160	Introductory Investigations in Mathematics (3)
MATH 215	Applied Statistics (4)
MATH 220	Discrete Mathematics (3)
MATH 240	Linear Algebra (4)
MATH 310	Geometry (3)
COSC 110	Introduction to Computer Science (3)

2. Complete 12 credits of additional MATH courses numbered 231 and above, including DATA 210, with at least 6 credits at the 300- or 400- level.

MUSIC

Faculty

Mathew Kelly (chair), Mark Babcock, Stan Dahl, Gabriel Espinosa, Brad Lampe, Ian Moschenross, Sean Stephenson, Sarah Van Waardhuizen

Statement of philosophy

The Bachelor of Arts in Music is designed to provide students with a broad introduction to music in the context of a comprehensive liberal arts program. It can serve as a foundation for further study for students desiring careers as performers, music scholars, music teachers, church musicians or other music professionals. Through a balanced emphasis on the analytical, historical, cultural and creative aspects of music, it also provides excellent preparation for any endeavor for which a solid liberal-arts background is valuable. Recognizing the value of study in other cultures, the department is committed to encouraging music majors' participation in study abroad programs.

The department seeks to assist non-music majors and members of the broader community to achieve competence in an artistic discipline and to gain an appreciation of the fine arts. The department serves the campus and community by providing a rich and varied cultural life on campus and in the community at large.

The Visual and Performing Arts Department stresses academic integrity in all aspects of the music curriculum. The department is committed to the development of students and to the recruitment of students with strong academic potential.

Major Communication Skills

In order to be certified for graduation, a music major must show competency in reading, writing and speaking. A communication skills endorsement from the music program indicates students have achieved college level mastery in written skills, verbal skills, and musicianship. Communication skills will be assessed using pre-determined rubric tools in the following areas of the major: MUS 211, MUS 312, and the Senior Recital.

Music Major Requirements (35 credits)

1. Complete all of the following:

MUS	114	World Music (3)
MUS	120	Theory and Aural Skills I (4)
MUS	125	Theory and Aural Skills II (4)
MUS	211	History of Western Music: Antiquity to 1750 (3)
MUS	215	Piano for Proficiency I (1)
MUS	216	Piano for Proficiency II (1)
MUS	220	Theory & Aural Skills III (4)
MUS	231	Conducting (2)
MUS	312	History of Western Music: Pre-Classical to 1940 (3)

2. Complete 10 credits of applied lessons (MUSL) in the primary area of music study.

3. Maintain continuous enrollment in a primary ensemble (MUSG).

Note: Primary ensembles are MUSG 222 (vocal), 223 (instrumental), 224 (string players only). Piano majors: any of the above, with approval from the department.

4. Present a senior recital of a minimum of one-half hour in the student's primary area of music study (or other approved significant senior project)

Music Minor Requirements (21-22 credits)**1. Complete *two* of the following:**

- MUS 105 Music Apps (3)
- MUS 120 Theory and Aural Skills I (4)
- MUS 125 Theory and Aural Skills II (4)

2. Complete *one* of the following:

- MUS 211 History of Western Music: Antiquity to 1750 (3)
- MUS 312 History of Western Music: Pre-Classical to 1940 (3)

3. Complete 4 credits of applied lessons (MUSL)**4. Complete 4 credits of music ensembles (MUSG)****5. Complete 3 credits of music electives (MUS/MUSG/MUSL)**

MUSIC EDUCATION

Faculty

Mathew Kelly (chair), Mark Babcock, Stan Dahl, Gabriel Espinosa, Brad Lampe, Ian Moschenross, Sean Stephenson, Sarah Van Waardhuizen

Statement of philosophy

The Bachelor of Arts in Music Education is designed to prepare students for careers as music educators at the elementary and/or secondary level within the context of a comprehensive liberal arts program. Proceeding from a solid foundation in the analytical, historical, cultural and creative aspects of music, course requirements in this program are tailored to the specific needs of potential educators in the two tracks offered (vocal and instrumental). Recognizing the value of study in other cultures, the department works with music education majors to make study at one of Central's study abroad programs possible for them.

The Visual and Performing Arts Department stresses academic integrity in all aspects of the music curriculum. The department is committed to the development of students and to the recruitment of students with strong academic potential. To be accepted for entry to the music education major, each student must pass an audition to indicate aptitude and prospects for success including competence in at least one major performance area. The student must additionally apply and be accepted to the teacher education program through Central's Education Department.

Music education tracks

The Department of Music offers two distinct tracks in music education: instrumental music education (combined K-8/5-12), and vocal music education (combined K-8/5-12). Both tracks have a common set of 29 credits of music courses and various competency and performance requirements. The common set is listed below, followed by the additional requirements for each track.

In addition to the 60 credits of music courses listed in this section, music education majors must complete all the courses for secondary licensure listed in the "Education--K-12 Art, Music, PE" section of the catalog. These courses, together with the required music courses, fulfill the coursework requirements for teaching licensure in the state of Iowa.

Study abroad opportunities

Students are encouraged to study abroad. Music faculty advisors work carefully with music majors to coordinate departmental requirements with study abroad.

Major Communication Skills

In order to be certified for graduation, a music major must show competency in reading, writing and speaking. A communication skills endorsement from the music program indicates students have achieved college level mastery in written skills, verbal skills, and musicianship. Communication skills will be assessed using pre-determined rubric tools in the following areas of the major: MUS 211, MUS 312, and the Senior Recital.

Major restrictions

Music Education majors cannot also declare a major or minor in Music. Additionally, a Music Education--Vocal major cannot also declare a major in Music Education--Instrumental, and a Music Education--Instrumental major cannot also declare a major in Music Education--Vocal.

Music Education Major- Instrumental (55.5 credits)

NOTE: Students who declare the Music Education-Instrumental track may not also declare the Music Education-Vocal track.

1. Complete all of the following: (25 credits)

MUS	114	World Music (3)
MUS	120	Theory and Aural Skills I (4)
MUS	125	Theory and Aural Skills II (4)
MUS	211	History of Western Music: Antiquity to 1750 (3)
MUS	215	Piano for Proficiency I (1)

MUS	216	Piano for Proficiency II (1)
MUS	220	Theory and Aural Skills III (4)
MUS	231	Conducting (2)
MUS	312	History of Western Music: Pre-Classical to 1940 (3)

2. Complete all of the following: (18 credits)

EDUC	313	Methods of Teaching Music in the Elementary School (3)
EDUC	316	Teaching Choral and Instrumental Music in Secondary Schools (2)
MUS	150	Introduction to Music Education (1)
MUS	249	Instrumental Methods: Percussion and Strings (2)
MUS	251	Instrumental Methods: Brass and Woodwinds (2)
MUS	255	Voice for Instrumental Music Majors (2)
MUS	258	Marching and Jazz Band Techniques (2)
MUS	332	Advanced Conducting (4)

3. Piano Proficiency: Music Education majors must pass MUS 215 and 216 with a C+ or better. A grade of C or lower in either (or both) courses requires a student to complete at least one additional semester of applied piano. Failed courses must be repeated.

4. Complete 10 credits of applied lessons (MUSL) in the primary area of music study

5. Complete 2.5 credits of music (MUS/MUSG/MUSL) electives

6. Maintain continuous enrollment in a primary ensemble (MUSG).

Note: Primary ensembles are MUSG 222 (vocal), 223 (instrumental), 224 (string players only). Piano majors: any of the above, with approval from the department.

7. Present a senior recital of one-half hour in the student's primary area of applied music study (or other approved significant senior project)

8. Students will receive chamber music experience either by enrolling in an approved chamber music ensemble or with an approved chamber music component in the senior recital.

Music Education Major- Vocal (56.5 credits)

NOTE: Students who declare the Music Education-Vocal track may not also declare the Music Education-Instrumental track.

1. Complete all of the following: (25 credits)

MUS	114	World Music (3)
MUS	120	Theory and Aural Skills I (4)
MUS	125	Theory and Aural Skills II (4)
MUS	211	History of Western Music: Antiquity to 1750 (3)
MUS	215	Piano for Proficiency I (1)
MUS	216	Piano for Proficiency II (1)
MUS	220	Theory and Aural Skills III (4)
MUS	231	Conducting (2)
MUS	312	History of Western Music: Pre-Classical to 1940 (3)

2. Complete all of the following: (19 credits)

EDUC	313	Methods of Teaching Music in the Elementary School (3)
EDUC	316	Teaching Choral and Instrumental Music in Secondary Schools (2)
MUS	149	Instrumental Methods: Percussion and Strings (1)
MUS	150	Introduction to Music Education (1)
MUS	151	Instrumental Methods: Brass and Woodwinds (1)
MUS	228	Diction for Singers (2)

MUS	236	Show Choir and Jazz Choir Techniques (2)
MUS	332	Advanced Conducting (4)
MUS	341	Vocal Pedagogy (3)

- 3. Complete 10 credits of applied lessons (MUSL) in the primary area of music study**
- 4. Complete 2.5 credits of music (MUS/MUSG/MUSL) electives.**
- 5. Maintain continuous enrollment in a primary ensemble (MUSG).**
Note: Primary ensembles are MUSG 222 (vocal), 223 (instrumental), 224 (string players only). Piano majors: any of the above, with approval from the department.
- 6. Present a senior recital of one-half hour in the student's primary area of applied music study (or other approved significant senior project)**
- 7. Piano Proficiency: Music Education majors must pass MUS 215 and 216 with a C+ or better. A grade of C or lower in either, or both, courses require a student to complete at least one additional semester of applied piano. Failed courses must be repeated.**

MUSICAL THEATRE

Faculty

Mathew Kelly (chair), Charles Adamson, Kate Kanne, Ron Rybkowski

Statement of philosophy

The Central College musical theatre program is committed to the development of our students as artist-citizens within the international art form of theatre. The curriculum provides a broad exposure to the theatre arts with majors eventually focusing on either a performance or design/ tech track. Theatre requires considerable collaboration and all students will be encouraged, over the course of their college career, to engage in every aspect of a production. Intellectual and artistic developments are carefully balanced within a production-oriented atmosphere.

Study Abroad Opportunities

Musical theatre students are encouraged to participate in study abroad and/or the Chicago program. Theatre courses are available in several of the European centers. Some of these courses apply directly to the major. Students should consult with the department faculty concerning such courses. Internship opportunities may also be available.

Major Communication Skills

Successful acquisition of major communication skills, including oral and written work will be assessed through regular coursework, participation in mainstage and student-driven productions and close consultation with a student's advisor. Additional coursework in other areas of the college that will support these essential theatrical skills will be encouraged.

Musical Theatre Major Requirements (minimum 39 credits)

Note: Students who plan to major or minor in musical theatre will be expected to participate in co-curricular theatre programs.

1. Complete all of the following (30 credits):

THEA	150	Acting (3)
THEA	163	Stagecraft (4)
THEA	180	Theatre Practice (1)
THEA	250	Musical Theatre History (3)
THEA	258	Directing I (4)
THEA	265	Entertainment Management (3)
THEA	266	Theatrical Makeup Design (3)
THEA	280	Advanced Theatre Practice (1)
THEA	361	Designing for the Stage (4)
THEA	370	Script Analysis and Dramatic Literature (4)

2. Complete two of the following (4-7 credits):

For those interested in Design/ Tech

MUS	105	Music Fundamentals (3)
MUS	312	History of Western Music: Pre-Classical to 1940 (3)

For those interested in Acting/ Directing

(Must complete both MUS 215 and MUS 216.)

MUS	120	Theory and Aural Skills I (4)
MUS	236	Show Choir and Jazz Choir Techniques (2)
MUS	215	Piano for Proficiency (1)
MUS	216	Piano for Proficiency (1)

3. Complete one of the following (4 credits):

ART	151	2D Problem Solving (4)
ART	252	Painting Traditional and Digital Approaches (4)

4. Complete one of the following (3-4 credits)

ENGL	346	Discovering Shakespeare (3)
PHIL	270	Philosophy of Art (4)
THEA	267	Digital Media and Design with the Arts (3)

5. **Pass a final portfolio review as determined by Musical Theatre faculty. This portfolio will be submitted at the beginning of a student's final semester in preparation for the next stage of their professional career.**

Musical Theatre Minor Requirements (20 credits) *also applies to current Theatre Minor

1. **Complete a minimum of 20 credits of THEA courses** that have been approved by the department. At least 3 credits must be at the 300-400 level.

NATURAL SCIENCE

Faculty

Ashley Garr (director), Anya Butt, Russ Benedict, James Dunne, Lee Macomber, Viktor Martisovits, Paulina Mena, Alexey Pronin, Mary Ross, Jay Wackerly, Paul Weihe

Statement of philosophy

The natural science major offers the opportunity to develop knowledge and skills in several disciplines. The natural science major is well suited for students who desire a broad background in the natural sciences as a preparation for a variety of career options and graduate or professional school. This major is also particularly appropriate for prospective natural science teachers at the secondary level.

Major Communication Skills

Natural Science majors are required to successfully complete two of the following courses BIOL 229, CHEM 241, PHYS 331 or GEOG 238. The program director will confer with the instructor of those courses to seek input on the student's oral and written communications skills and if necessary advise the student on additional courses to assist in developing better communication skills.

Major/Minor Restrictions

Students who major in natural science may not minor in the areas (biology, chemistry or physics) used to fulfill the major requirements.

Natural Science Major Requirements (54-58 credits)

1. Complete the following courses:

MATH	131	Calculus I (4)
MATH	132	Calculus II (4)

2. Complete all courses from any three of the four areas below.

Biology (16 credits)

BIOL	130	Diversity of Life with Lab (4)
BIOL	131	Introduction to Cells with Lab (4)
BIOL	221	Genetics and Evolution with Lab (4)
BIOL	229	Ecology and Evolution with Lab (4)

Chemistry (16 credits)

CHEM	111	General Chemistry with Lab (4)
CHEM	221	Inorganic Chemistry with Lab (4)
CHEM	231	Organic Chemistry I with Lab (4)
CHEM	241	Analytical Chemistry with Lab (4)

Physics (15 credits)

PHYS	111	General Physics I with Lab (5)
PHYS	112	General Physics II with Lab (5)
PHYS	225	Modern Physics I (3)
PHYS	331	Advanced Laboratories (2)

Geosciences (minimum 15 credits)

PHYS	106	Introductory Astronomy (3)
ENVS	125	Geology and the Environment with Lab (3)
GEOG	237	Physical Geography: Weather and Climate with Lab (4)
GEOG	238	Physical Geography: Geomorphology with Lab (4)

At least one other approved NASC/ENVS/GEOG course

Note: The following courses are not required but are strongly recommended:

BIOL	320	Evolution with Discussion Lab (4)
CHEM	361	Physical Chemistry I (4) or CHEM 351 Biochemistry with Lab (4)

NOT-FOR-PROFIT MANAGEMENT

Faculty

TBD (director), Kate Nesbit, Julie Summers

Statement of philosophy

Not-for-profit organizations are looking for talented individuals who are prepared to take on the challenges of managing their organizations. Examples of such organizations include the American Red Cross, Big Brothers Big Sisters of America, Chamber of Commerce, Des Moines Playhouse, Doctors Without Borders, Iowa Arts Council, Lutheran Social Services, Meals From the Heartland, Girl Scouts of America, Make A Wish Foundation of Iowa, Pella Historical Society, Pittsburgh Symphony Orchestra, United Way, YMCA, World Vision and hundreds of others. Such organizations need people to promote the organization, raise funds, organize volunteers and spark caring in their communities.

Numerous Central College students are looking for a career that will use their social skills and their organizational abilities, and will offer them the fulfillment of helping others. Central's Not-For-Profit Management minor prepares graduates to assume entry level management positions in the nonprofit sector by helping students develop their skills in fundraising, grant writing, volunteer development, marketing and program planning.

The Not-For-Profit Management minor is designed primarily for students majoring in subjects other than business who plan careers in nonprofit organizations (educational institutions; community organizations such as Creative Visions of Des Moines; and social service organizations such as Habitat for Humanity, the Red Cross, or the YMCA). For more information about the Not-For-Profit Management minor, or to declare the minor, please contact Dr. Jaclyn Rundle.

Minor Restriction

A student cannot declare both the Not-For-Profit Management minor and the Entrepreneurship minor.

Not-For-Profit Management Minor Requirements (20 credit minimum)

1. Complete all of the following (14 credits):

BEHS 285	Not-For-Profit Seminar (1)
BMGT 271	Principles of Marketing (3)
BMGT 311	Principles of Management (3)
BMGT 335	Not-For-Profit Management (3)
ENGL 246	Writing for Non-Profit Organizations (4)

2. Complete one of the following (minimum of 3 credits):

ACCT 241	Introduction to Financial Accounting (3)
BMGT 352	Human Resource Management (3)
BMGT 372	Consumer Behavior (3)
BMGT 373	Marketing Management (3)

3. Complete one of the following (minimum of 3 credits):

ACCT 346	Government and Non-Business Accounting (3)
BEHS 397	Internship in Not-For-Profit Management (3)
COMM 340	Public Relations (4)
COSC 109	Introduction to Information Management (3)
ENGL 243	Writing Oral Histories (4)
GEOG 320	Principles of GIS with Lab (3)

Service leadership

Due to the nature of this career, students are strongly encouraged to volunteer in and demonstrate leadership in on-campus and off-campus volunteer organizations. Possibilities include Christian Opportunity Center, JUMP for Kids, orchestra, drama, Student Senate, scouting programs and many others.

Off-campus opportunities

Since many not-for-profit organizations are charitable and international nongovernmental organizations, students are encouraged to study abroad to take advantage of the numerous opportunities for international internships available in not-for-profit agencies. Excellent internship opportunities are also available in the Chicago Metropolitan Program and in Washington, D.C. at the Washington Center.

PHILOSOPHY

Faculty

Lori Witt (chair), Anna Christensen, Mark Thomas

Statement of philosophy

The focus of Central's philosophy program is "ethics and human flourishing." Often when people hear the word "ethics," they think of case studies and debates about hot-button issues. Our approach to ethics is more comprehensive: it involves getting students to think about how everything they do fits into the bigger picture of a meaningful life. It also involves offering courses exploring the core areas in philosophy and its history, realizing that a full appreciation of living well requires understanding basic questions of metaphysics, logic, and epistemology. By focusing on human flourishing and developing critical reading and reasoning skills, the program prepares students to be thoughtful, adaptable, and productive citizens in this changing world.

Major Communication Skills

By the time they graduate, philosophy majors should be able to grasp, reproduce and critically assess written arguments. From the time that they declare their intention to complete a major in philosophy until their communications skills are endorsed, they will be expected each spring to present to their philosophy advisor at least two philosophy papers that they have submitted in courses during the preceding two terms. The advisor will review the student's progress with colleagues in the department as appropriate and discuss with the student their development of communication skills. The discussion should indicate any deficiencies so that the student is clear on what should be improved. A student with serious deficiencies should receive from the advisor, at least two semesters before anticipated graduation, a written statement of remedial measures to be taken. The department may approve a student's communications skills before the third year. After a major's skills are approved, further submission of papers for skills review is optional.

Philosophy Major Requirements (32 credit minimum)

1. Complete one of the following:

- PHIL 120 Introduction to Philosophy (3)
- PHIL 121 Ethics (3)
- PHIL 127 Meaning of Life (3)

2. Complete all of the following:

- PHIL 125 Logic (3)
- PHIL 221 Classical Thought (4)
- PHIL 222 Modern Thought (4)

3. Complete an additional 18 semester hours of PHIL electives. At least 15 semester hours must be at the 200-level or above, with at least 8 semester hours at the 300-level or above. The following two courses may be used as philosophy electives:

- REL 236 Islamic Law, Theology, and Philosophy (3)
- REL 238 Taoism and Confucianism (4)

Philosophy Minor Requirements (18 credits)

1. Complete the following:

PHIL 125 Logic (3)

2. Take one of the following:

PHIL 120 Introduction to Philosophy (3)

PHIL 121 Ethics (3)

PHIL 127 Meaning of Life (3)

3. Complete one of the following:

PHIL 221 Classical Thought (4)

PHIL 222 Modern Thought (4)

4. Take an additional 8 semester hours of PHIL electives at the 200-level or above, with at least 4 semester hours at the 300-level or above

PHYSICS

Faculty

Wendy Weber (chair), Chad Garber, Elizabeth Golovatski, Viktor Martisovits, Pavrithra Premaratne, Alexey Pronin, Puneet Vishwarkarma

Statement of philosophy

Physics, the most fundamental physical science, is concerned with the basic principles of the universe. It is the foundation on which engineering, technology and the other sciences are based. The physics program at Central College is a four-year program that prepares students for jobs in engineering and other technical areas, teaching, physics graduate school, engineering graduate school and research. It is the major that is the foundation for most of the engineering specialties in Central's engineering dual-degree programs with The University of Iowa, and Iowa State University. Our mission is to teach physics theory, problem-solving skills, and experimental techniques with an emphasis on science as a method for exploring the world. We prepare our students to be able to reason from the general fundamental principles to specific applications in physics and engineering. A student trained in physics will be able to work in a variety of specialties.

Study abroad opportunities

Students majoring in physics have been able to study abroad with careful planning, especially during the summer.

Major Communication Skills

The communication skills goals of the Analytical and Physical Science department are to prepare our students to be able to read the technical and mathematical literature used in physics and to be able to explain physical concepts in a clear and logical fashion both in writing and speaking. Difficulties that arise in oral communication occur typically in public speaking situations and are best addressed by practice provided in speech classes. Early evaluation of skills is done in PHYS 111. Skill in reading physics texts is evaluated through normal chapter tests and quizzes in which comprehension of test questions and text material is required to pass. Writing skills are evaluated through laboratory reports that require a formal writing style. Speaking skills are evaluated through personal conversations with the students by the physics faculty during normal conversation involving technical matters.

Monitoring and remedial opportunities occur in each physics course in that tests, quizzes, and personal discussions with the students provide us with information that is used to advise students about any changes that must be made to improve their communication skills. Students in many courses are assigned short presentations to give to a class. Enrollment in PHYS 331 for two semesters is required of all physics majors. Each student must be able to communicate orally on a one-to-one basis with the instructor of the class regarding technical problems arising from experiments performed.

All graduating physics majors know how to read technical material, if slowly. Since speed is not a concern, there are no specific reading requirements. PHYS 331 has sufficiently high standards of technical writing that passing both semesters is evidence of a student's writing skills. The formal requirement needed to meet the communication skill goal in speaking is to pass COMM 160 Communication in Everyday Life or COMM 270 Public Speaking.

Physics Major Requirements (minimum of 57 credits)

1. Complete all of the following:

PHYS 111	General Physics I with Lab (5)
PHYS 112	General Physics II with Lab (5)
PHYS 225	Modern Physics I (3)
PHYS 331	Advanced Labs (4) (2 semesters)
CHEM 111	General Chemistry with Lab (4)
MATH 131	Calculus I (4)
MATH 132	Calculus II (4)
MATH 231	Multivariable Calculus (3)
MATH 250	Differential Equations (3)

2. Complete 19 credits from the following elective courses:

PHYS 211	Analog Electronics (3)
PHYS 215	Theoretical and Experimental Methods (2)
PHYS 216	Waves (2)
PHYS 322	Optics (3)

PHYS 325	Modern Physics II (3)
PHYS 326	Analytical Mechanics (4)
PHYS 412	Quantum Mechanics (4)
PHYS 421	Electricity and Magnetism II (3)
ENGR 212	Dynamics (3)
ENGR 311	Thermodynamics (3)
ENGR 321	Electromagnetism (3)

3. Complete one of the following:

COMM 160	Communication in Everyday Life (3)
COMM 270	Public Speaking (4)

Physics Minor Requirements (18 credits)

1. Complete all of the following:

PHYS 111	General Physics I with Lab (5)
PHYS 112	General Physics II with Lab (5)
PHYS 225	Modern Physics I (3)
PHYS 331	Advanced Laboratories (2)

2. Complete an additional 3 credits of PHYS courses numbered 211 or above

POLITICAL SCIENCE

Faculty

Shawn Wick (chair), Mark Barloon, Andrew Green, Keith Yanner, James Zaffiro

Statement of philosophy

Government is the process through which people pursue collective goals, allocate scarce resources, and attempt to establish justice. Government decisions affect life and death, wealth and poverty, crime and punishment, individual freedom, opportunity, and happiness. Students in the political science program learn about government and how individuals and groups interact with government in the United States, other countries, and international organizations. Student learning focuses on theory and experience. In their courses political science students confront classic as well as contemporary political questions: Is there a best political order; how can hunger be eliminated; what are the causes of political violence and terrorism; what is the citizen's responsibility to the environment; what is the most efficient way to fund local schools? Political science students also learn how to do original research and citizenship projects that apply their theoretical knowledge to questions and concerns of personal interest. This is accomplished through the required research sequence, supervised independent study, service learning, and internships. Many of our students study abroad to learn firsthand about foreign and international politics, or intern on one of Central's programs in Washington, D.C., Des Moines, or Chicago to learn about federal, state, and local government in the U.S.

Major Communication Skills

Oral Communication and Writing skills are an integral part of a major in political science and for careers which political science majors will pursue. Political science majors will have their own communication and writing skills assessed on an annual basis and will be provided feedback from the department's faculty members. The final evaluation of the major communication skills will occur while the student is enrolled in POLS 489 after successful completion of the following:

- a) A professional research project
- b) A professional presentation of the research project's findings

Political Science Major Requirements (42-44 credits)

1. Complete all of the following (20 credits):

POLS 110	Introduction to American Politics (4)
POLS 140	Introduction to International Politics (4)
POLS 249	Political Science Statistics (4)
POLS 250	Methods of Political Research (4)
POLS 489	Research Seminar (4)

2. Complete three of the following with at least one course at the 300-level (12 credits):

HIST 217	Contemporary Europe (4)
POLS 225	Modern Latin America (4)
POLS 231	Middle East in World Affairs (4)
POLS 241	International Political Economy (4)
POLS 242	Global Sustainability Politics (4)
POLS 326	Political Violence and Terrorism (4)
POLS 344	International Law and Human Rights (4)

3. Complete three of the following with at least one course at the 300-level (10-12 credits):

POLS 211	American Political Parties (4)
POLS 212	Congress (4)
POLS 213	Courts (4)
POLS 214	The Presidency (4)
POLS 215	The Politics of State and Local Governments (4)
POLS 216	Political Behavior: Political Participation, Elections, and Media (4)
POLS 233	American Environmental Politics and Policy (4)
POLS 235	The U.S. in World Affairs (4)
POLS 287	Presidential Inauguration Seminar (3)

POLS 316 Presidential Elections (4)
POLS 355 Seminar in Public Policy (3)
POLS 361 American Political Philosophy (4)

Note: A 3-credit, political science internship (POLS-397) will count as one course in either Group 2 or Group 3.

Political Science Minor Requirements (21-24 credits)

Complete six Political Science courses with a 6 s.h. of internship credit in POLS 397 counting for up to two courses.

PSYCHOLOGY

Faculty

Shawn Wick (chair), Keith Jones, Shelby Messerschmitt-Coen, Randall Renstrom, Ashley Scolaro

Statement of philosophy

The curriculum of the psychology program is designed to inform students about approaches used, discoveries made, explanations offered and questions asked by people in the discipline to promote greater understanding about the nature of being human. Courses encourage students to examine their lives in personal, communal, societal and cultural contexts; to teach about ways to develop more productive and satisfying relationships; to understand how belief systems color and shape perceptions of self and others; to be aware of development across the life span; to be open to experience; and to grow in self-acceptance. Awareness is directed both to what is and to options about what could and, perhaps, should be.

Majors are prepared for graduate study in a variety of areas and are provided with the interpersonal skills and the communication skills that make them attractive at the B.A. level to employers in a wide variety of work situations. The department offers opportunities to do research and to have off-campus study experiences through participation in internships, service-learning, study abroad programs, and the Chicago Metropolitan Program.

Study abroad opportunities

Students are strongly encouraged to participate in a study abroad program.

Major Communication Skills

An initial evaluation of a student's writing, reading, speaking, information literacy, computer skills, and critical thinking skills occurs in PSYC 220 and recommendations about ways to enhance skill development are made to the student. Subsequently, students who declare a major in psychology are evaluated by individual faculty and referred to the Tutoring & Writing Center as needed for additional skill development. Each semester the psychology faculty discuss the status of each student's skills and make recommendations as needed to the student for skills improvement. Final evaluation and certification normally occur during the fourth year after the student has completed PSYC 480 Advanced Research in Psychology (4) and PSYC 336 SPSS for Psychological Research (1), which involve substantial writing, reading, information literacy, critical thinking, computer skills, and both informal and formal speaking components (including a presentation at a departmental research symposium).

Psychology Major Requirements (37 credits)

1. Complete all of the following:

PSYC 122	General Psychology (3)
PSYC 220	Psychological Investigations (4)
PSYC 335	Fundamentals of Statistics (4)
PSYC 336	SPSS for Psychological Research (1)
PSYC 348	Experimental Psychology (4)
PSYC 480	Advanced Research in Psychology (4)

2. Complete 17 credits of PSYC elective courses. One of these electives must be at least a 3-credit hour, 400-level psychology course (excluding PSYC 497 Internship).

Psychology Minor Requirements (18 credits)

Complete 18 credits of PSYC courses; at least six credits at the 300-level or above.

Note: Students wishing to earn a minor should seek advising from a member of the psychology department early in the development of their program.

RELIGIOUS STUDIES

Faculty

Lori Witt (chair), Terence Kleven, Elena Vishnevskaya

Statement of philosophy

The Religious Studies program fosters the academic study of theology and religion as one of the essential Humanities (Arts) disciplines in a Liberal Arts college. Our program seeks to encourage students to understand more deeply the nature of faith (either their own or that of others) and to prepare them for the enjoyable challenges of graduate studies and professional careers in Theology, Ministry, International Studies, the Foreign Service, Law, and Political Philosophy. Although the academic discipline of Religious Studies incorporates research done in all the sciences, its unique body of knowledge undertakes inquiry into essential questions regarding the nature of happiness, of the soul, and of ultimate reality. As a Humanities discipline, Religious Studies is devoted to the recognition of the centrality of language and of the necessity of coherent expression and reasoned argument to every aspect of our humanity. We study the importance of formative texts, both the literature and poetry of Scripture, as well as the essential treatises in the history of Philosophic Science.

As part of our commitment to the academic study of religion, the Religious Studies program gives direction to Central College's use of the phrase in our Mission Statement that we "are a liberal arts college in an ecumenical Christian tradition." The Religious Studies program has an essential role in educating students, who come from a variety of backgrounds, both those students from an identifiable religious heritage and those without such formations, to the intellectual study of Christianity and to the concomitant respect for faith, devotion, and Christian community.

Our curriculum in the Religious Studies program also emphasizes the importance of the academic study of the plurality of religious traditions around the world. We encourage the study of our own heritages as well as the study of the heritages of others, and each of these in local, national, and international contexts. The program recognizes the centrality of the Judaeo-Christian heritage to Western Civilization; at the same time, we foster the study of various traditions of Eastern Civilizations, Islam, Hinduism, Buddhism, Taoism, and Confucianism, as well as indigenous traditions belonging to various continents, including in the Americas.

Major Communication Skills

A major in religion can verbally communicate at the level appropriate for the recipient of a Bachelor of Arts degree in core areas of a liberal-arts curriculum.

To ensure achievement at the required level, the communication skills of religion majors will be monitored from the time of major declaration. An evaluation of the student's abilities will be made in the earliest class possible and assessments and recommendations deriving from this evaluation will be discussed with the student and the student's advisor. Where appropriate, evaluation and recommendation will continue through the course work in the major until such time the student is consistently performing at the desired level.

Explanation of the Major

The Major requires thirty-three semester hours for completion. While majors usually begin with 100-level introductions, students are generally free to take courses in various sequences, in consultation with their academic advisor. As the capstone of a student's study in the Major, he or she will write a Senior Independent Study (3 SHs minimum) in which a student focuses on a research project with a faculty member.

There are three Tracks in the Major. These Tracks provide a student the opportunity to take a majority of courses in the student's intellectual interest or area of professional preparation. Students will also need to take courses outside a specific Track to complete their Majors or Minors. Students will work closely under the guidance of his or her faculty adviser in our program. Internships in ministry, in service organizations, in International Studies, and in political institutions are available in both Eastern and Western theological-political traditions.

Religious Studies Major Requirements (minimum 33 credits)

Choose one Track- Christian Studies, Biblical Studies or World Religions

Note: The completed Religious Studies major must include a minimum 11 hours at the 300-400 level.

Christian Studies

1. Complete five courses from the following (15-18 credits)

REL	110	Old Testament History and Religion (3)
REL	111	Introduction to the New Testament (3)
REL	150	The Christian Heritage (3)
REL	220	Christian Worship (3)
REL	252	The Reformation (3)
REL	254	The Early Church (4)
REL	274	World Christianity (4)
REL	285	The Pre-Ministerial Seminar (2)
REL	325	History of Spirituality in the Christian Tradition (4)

2. Complete one elective in World Religion (3-4 credits)

HIST	220	Middle Eastern Civilization (3) <i>(may only count in one category)</i>
REL	135	Islam (3)
REL	233	Judaism (3)
REL	236	Islamic Law, Theology, and Philosophy (3) or
REL	336	Readings in Islamic Law, Theology, and Philosophy (4)
REL	238	Taoism and Confucianism (4)

3. Complete an additional 8-12 credits of religious studies electives (courses that carry REL prefix) to achieve minimum 33 credits to complete the major.

Can also include the following *(courses may not count in more than one category)*

HIST	220	Middle Eastern Civilization (3)
LAS	410	course taught by a Religion faculty
REL	497	Internship in Religion (1-3) <i>(no more than 3 credits of internship can be counted or 3 credits of X99 may be counted, excluding the required REL-399)</i>

*No more than 2 of the following courses may count as religious studies electives.

ANTH	120	Introduction to Cultural Anthropology (3)
PHIL	221	Classical Thought (4)
PHIL	222	Modern Thought (4)

4. Complete REL 499 Senior Independent Study (3 credits)

Biblical Studies

1. Complete five course from the following (15-19 credits):

REL	110	Old Testament History and Religion (3)
REL	111	Introduction to the New Testament (3)
REL	210	The Prophets (3) or
REL	310	Readings in The Prophets (4)
REL	211	The Writings (3) or
REL	311	Readings in the Writings (4)
REL	216	Jesus and the Gospels (3) or
REL	316	Readings in Jesus and the Gospels (4)
REL	218	Pauline Epistles (3)

2. Complete one elective in World Religion (3-4 credits)

HIST	220	Middle Eastern Civilizations (3)
REL	135	Islam (3)
REL	233	Judaism (3)
REL	236	Islamic Law, Theology, and Philosophy (3) or
REL	336	Readings in Islamic Law, Theology, and Philosophy (4)
REL	238	Taoism and Confucianism (4)

3. Complete an additional 7-12 credits of religious studies electives (courses that carry REL prefix) to achieve minimum 33 credits to complete the major.

Can also include the following (*courses may not count in more than one category*)

HIST 220 Middle Eastern Civilization (3)

LAS 410 course taught by a Religion faculty

REL 497 Internship in Religion (1-3)

(no more than 3 credits of internship can be counted or 3 credits of X99 may be counted, excluding the required REL-399)

*No more than 2 of the following courses may count as religious studies electives.

ANTH 120 Introduction to Cultural Anthropology (3)

PHIL 221 Classical Thought (4)

PHIL 222 Modern Thought (4)

4. Complete REL 499 Senior Independent Study (3 credits)

World Religions

1. Complete the following (16-17 credits):

HIST 220 Middle Eastern Civilization (3)

REL 135 Islam (3)

REL 233 Judaism (3)

REL 236 Islamic Law, Theology, and Philosophy (3) or

REL 336 Readings in Islamic Law, Theology, and Philosophy (4)

REL 238 Taoism and Confucianism (4)

2. Complete one elective in Biblical or Christian Studies (3-4 credits)

REL 110 Old Testament History and Religion (3)

REL 111 Introduction to the New Testament (3)

REL 150 The Christian Heritage (3)

REL 210 The Prophets (3) or

REL 310 Readings in The Prophets (4)

REL 211 The Writings (3) or

REL 311 Readings in the Writings (4)

REL 216 Jesus and the Gospels (3) or

REL 316 Readings in Jesus and the Gospels (4)

REL 218 Pauline Epistles (3) or

REL 220 Christian Worship (3)

REL 252 The Reformation (3)

REL 254 The Early Church (4)

REL 274 World Christianity (4)

REL 325 History of Spirituality in the Christian Tradition (4)

3. Complete an additional 10-11 credits of religious studies electives (courses that carry REL prefix) to achieve minimum 33 credits to complete the major.

Can also include the following (*courses may not count in more than one category*)

LAS 410 course taught by a Religion faculty

REL 497 Internship in Religion (1-3)

(no more than 3 credits of internship can be counted or 3 credits of X99 may be counted, excluding the required REL-399)

*No more than 2 of the following courses may count as religious studies electives.

ANTH 120 Introduction to Cultural Anthropology (3)

PHIL 221 Classical Thought (4)

PHIL 222 Modern Thought (4)

4. Complete REL 499 Senior Independent Study (3 credits)

Christian Ministries Emphasis (8-10 credits)

Students may choose to earn a Christian ministries emphasis within the Religious Studies major. To earn this emphasis, students must complete all of the following courses in the process of completing the requirements of the Religious Studies major:

REL	220	Christian Worship (3)
REL	254	The Early Church (4)
REL	397	The Ministry Internship (1-3)

Religious Studies Minor Requirements (18 credits)

- 1. Complete 18 credits of religious studies courses in consultation with a Religious Studies Faculty member. May also include HIST 220 Middle Eastern Civilization (3).**

Pre-Ministry Program

Central College continues the emphasis of the ecumenical Christian tradition in general, and the Reformed tradition in particular, to prepare students for a life of service to God and community, as well as to prepare some students for a professional vocation in the ministry.

The chaplaincy and the religion faculty work together to provide a period of reflection and discernment for students who are considering ministry, whether this be lay ministry (such as missions, church-related teaching, or para-church service) or ordained ministry that requires further graduate or seminary study. Pastoral and vocational counseling is offered by the chaplain, the department chair, and other faculty members. In addition, pre-ministerial students usually complete either a major or a minor in religion in order to give them adequate grounding in scriptural studies, in church history, theology, and ethics, and in at least one world religion other than Christianity. The students also have an opportunity to complete ministry internships in churches and church-related organizations either locally or through Central's off-campus programs. Students may also choose to receive spiritual formation from a designated mentor.

The variety of denominations represented by the faculty, students, and staff at Central College provides student with a rich exposure to various formulations of Christian teachings and practices. Although our aim is to provide students with an opportunity to study various church teachings besides their own, we also focus a particular student's study on the Church teaching to which he or she is most accustomed. As parts of an educational institution, the chaplaincy, the Christian ministries emphasis, and the religion major encourage students to develop a strong sense of the centrality of education to ministry. We foster an integration of faith with training of intellectual qualities of mind in order to establish a student's vocation on the best that is thought and known in Christian teaching and ministry.

SELF-DESIGNED STUDIES

All Faculty

Statement of Philosophy:

The self-designed studies interdisciplinary major is intended for mature and motivated students whose academic interests and goals would be best met outside the structure of any single departmental major and/or minor. Coursework is integrated around a basic theme or focus and culminates in a capstone experience. This interdisciplinary major can serve as an excellent preparation for a variety of graduate school programs and professional careers.

Study Abroad Opportunities:

Courses taken abroad can be included in a self-designed studies interdisciplinary major or minor.

Self-Designed Studies Interdisciplinary Major Requirements (45 Credits)

- Develop an interdisciplinary focus that combines either three or four academic disciplines. The definition of a “discipline” and examples of interdisciplinary foci are included at the end of this document.
- Identify a primary and a secondary advisor, each from a different selected academic discipline.
- Complete a minimum of 45 total credits in the selected disciplines. To ensure that coursework is suitably distributed across disciplines and levels, students must:
 - Complete at least 6 credits per selected discipline. In each discipline, at least 3 credits should be at the 200-level or above.
 - Complete a minimum of 12 credits at the 300/400 level. With permission of the students’ advisors, three credits of LAS 410 may count toward this requirement when it fits into the student’s area of focus.
 - Count a maximum of 10 credits at the 100-level toward the 45 credits required for the major.
 - Complete a 2-3 credit interdisciplinary senior capstone experience. The capstone must be approved and supervised by the student’s primary and secondary advisors. The capstone experience may take a variety of forms: a senior honors thesis, a research project for an existing disciplinary capstone course, an art exhibit or final performance, or another approved culminating project. **Note:** The capstone experience is not included in the 12 credits completed at the 300/400 level, and students may not use transfer credit to satisfy the capstone requirement.
- **Note:** Students with a self-designed studies interdisciplinary major may not declare another major. Minors may be declared as long as less than 50 percent of the credits between the self-designed studies interdisciplinary major and proposed minor overlap.

Self-Designed Studies Interdisciplinary Minor Requirements (minimum of 21 credits):

- Develop an interdisciplinary focus that combines two or three relevant academic disciplines. The definition of a “discipline” and examples of interdisciplinary foci are included at the end of this document.
- Identify a faculty advisor from one of the selected academic disciplines. This faculty advisor should be outside of the student’s declared major.
- Complete at least 21 credits in the chosen disciplines. To ensure that coursework is suitably distributed across disciplines and levels, students must:
 - Complete at least 6 credits per selected discipline, with a maximum of 3 credits at the 100-level per discipline.
 - Complete a minimum of 3 credits at the 300/400 level from each discipline, unique from the courses counted for the student’s major(s).
- **Note:** This minor may be declared with a major as long as at least 12 credits used for the self-designed studies interdisciplinary minor are different from those taken for the major(s). Students with an interdisciplinary minor may not declare another minor unless the coursework is 100% unique.

Approval Process for a Self-Designed Studies Interdisciplinary Major or Minor: Self-designed Studies interdisciplinary majors and minors require approval from the Curriculum Approval Committee. A student’s self-designed studies interdisciplinary major or minor should be approved by the end of their sophomore year, and in no case later than the first semester of their junior year. To propose this major or minor, students should consult with their selected advisor(s) to complete:

1. A declaration form, listing the courses constituting the proposed major or minor.
2. A typed, 2-3-page proposal that clearly articulates:

- a. The goals, topic, or theme of the proposed major/minor.
- b. How the self-designed studies interdisciplinary major/minor helps meet the student's educational and vocational objectives better than existing Central College majors and/or minors.
- c. A plan for the student's intended final capstone experience (for the self-designed studies interdisciplinary major only). When preparing the declaration form and proposal, students and their advisors are encouraged to consult with the Curriculum Approval Committee or a Committee designee. Students will submit their completed forms and proposals to the Registrar's Office. Final approval of the major is received from the Curriculum Approval Committee.

Proposing Changes to a Self-Designed Studies Interdisciplinary Major or Minor: After initial approval, any subsequent changes to the students' proposed courses must be made in writing in advance. These changes should be approved by the primary advisor and then submitted for approval to the Curriculum Approval Committee.

Advisor Roles

Students should consult with both primary and secondary advisors when planning their self-designed studies interdisciplinary majors or minors, when proposing changes, and when completing their capstone experience. The primary advisor is responsible for approving any proposed changes and for overseeing the final capstone experience.

Academic Disciplines

Typically, a "discipline" is defined as a course of study that has a major or minor listed in the Central College Course Catalog. Exceptions can be made on a case-by-case basis (e.g., for disciplines like Geography or Data Science).

Examples of Interdisciplinary Foci:

Students are strongly encouraged to develop their own individualized interdisciplinary focus. Advisor(s) could be sought from relevant disciplines. The following are some examples of how this might be done:

- Students focusing on **Allied Health** could consider courses in Biology, Chemistry, Physics, Psychology, Communication Studies, and Exercise Science.
- Students focusing on **American Studies** could consider courses in History, English, Political Science, Sociology, Anthropology, and Religion.
- Students focusing on **Arts Management** could consider courses in Business Management, Art, Music, and Theatre.
- Students focusing on **Food Systems** could consider courses in Anthropology, Biology, Environmental Studies, Political Science, and Chemistry.
- Students focusing on **Gender Studies** could consider courses in Psychology, Sociology, English, Anthropology, and Exercise Science.
- Students focusing on **Global Health** could consider courses in Anthropology, Biology, Economics, Exercise Science, Environmental Studies, Political Science, Mathematics, and Psychology.
- Students focusing on **Not-For-Profit Management** could consider courses in Business Management, Accounting, Communication Studies, and English.
- Students focusing on **Geography** could consider courses in Geography, Economics, English, History, Political Science and Sociology.
- Students focusing on **Visual Communication** could consider courses in Art, Computer Science, and Communication Studies.

SOCIAL JUSTICE STUDIES

Faculty

Shelley Bradfield, Beth McMahon, Paulina Mena, Shelby Messerschmitt-Coen

Statement of philosophy

The minor in Social Justice Studies seeks to prepare students to apply knowledge and skills toward the work of positive, prosocial change for groups who have contextually and historically experienced marginalization. Students will develop skills in recognizing and analyzing the causes and consequences of social injustices from the perspectives of multiple disciplines, use theory and research to propose effective and sustainable ways to promote positive social change, investigate the ways in which they interact with the communities which they serve through critical self-reflection, and apply this knowledge through engagement in the Central College tradition of service learning and engaged citizenship. Minors in Social Justice Studies will graduate with knowledge and skills that are essential to being effective leaders and advocates in communities of which they are a part.

Major Communication Skills

Competency in communication skills is assessed by completion of SJS 499 Advocacy Capstone in which students reflect on their self-efficacy in engaging in social justice work and present their reflections in an oral form to the class.

Social Justice Studies Minor Requirements (minimum 19 credits)

Note: Due to the interdisciplinary nature of the minor, no more than 1 course can count toward both the social justice studies minor and other major(s)/ minor(s). Additionally, this minor requires a minimum of four disciplines represented, as indicated by program prefix, to ensure interdisciplinary work toward the minor requirements. The SJS prefix is not included as one of the four disciplines required.

1. Foundations: Complete two of the following: (6 credit minimum)

BIOL	210	Epidemiology (3)
COMM	250	Evaluating Contemporary Media (4)
EDUC	135	Children with Exceptionalities (3)
ENGL	213	Literature, Environment and Ecology (3)
ENGL	214	Literature by Women (4)
ENGL	215	African American Literature (4)
ENGL	216	LGBTQ+ Literature and Culture (3)
ENGL	252	The Haunted House of British Literature, 1785- present (3)
GENR	130	Why Gender Matters (3)
GERM	362	Germany & the Environment (3)
HIST	126	World History Since 1500 (3)
HIST	310	Studies in World History (4)
MUS	211	History of Western Music: Antiquity to 1750 (3)
MUS	312	History of Western Music: Pre-Classical to 1940 (3)
PHIL	121	Ethics (3)
PHIL	245	Environmental Ethics (4)
PHIL	275	Memory and the Holocaust (4)
PSYC	231	Psychopathology (3)
PSYC	330	Multicultural Issues in Psychology (3)
REL	274	World Christianity (4)
SOC	225	Social Problems (3)
SOC	346	American Ethnicity (4)

2. Critical Self- Reflection: Complete two of the following: (6 credit minimum)

ART	425	Theory, Criticism and Art Since 1945 (4)
COMM	268	Intercultural Communication (3)
ENGL	217	Literature and Film of the Middle East (4)
ENGL	270	Illness and Health in Literature (4)
ENGL	346	Discovering Shakespeare (3)
GENR	330	Witches and Warriors: Feminist Thought and Social Justice (3)
LAS	410	Rap, Hip Hop and Decolonizing the Classroom (4)
PHIL	240	Social and Political Philosophy (3)

POLS	344	International Law and Human Rights (4)
PSYC	240	Psychology of Gender (3)
PSYC	385	Principles of Counseling (3)
SOC	336	Status and Inequality in Social Life (4)
SOC	390	Collective Action and Social Change (4)
SPAN	350	Hispanics/ Latinos in the United States (3)

3. Integration: Complete one of the following (3 credit minimum)

COMM	276	Communicating Health and Illness (3)
COMM	340	Public Relations (4)
EDUC	215	Human Relations (3)
ENGL	246	Writing for Non-Profit Organizations (4)
GENR	230	Gender Studies in Context: From Aesthetics to Athletics (4)
HIST	235	The Immigrant Experience (4)
KIN	379	Epidemiology of Physical Activity (3)
POLS	242	Global Sustainability Politics (4)
PSYC	384	Adult Development and Aging (3)
REL	325	History of Spirituality in the Christian Tradition (4)
SJST	290	Social Justice in the City (6)

4. Empowerment (1 credit minimum)

Complete a 1 credit (minimum) course (SJST 300: Empowerment in Social Justice Studies) that supports the work toward and reflection of the Empowerment experience.

5. Advocacy Capstone (3 credits)

Complete a 3 credit independent study (SJST 499 Capstone in Social Justice Studies).

SOCIAL SCIENCE

Faculty

Lori Witt (director), Mark Barloon, Anya Butt, Andrew Green, Keith Jones, Shelby Messerschmitt-Coen, Tuan Nguyen, George Nwaogu, Tim Olin, Randy Renstrom, Dawn Reece, Ashely Scolaro, Elena Vishnevskaya, Shawn Wick, Jon Witt, Keith Yanner, Jim Zaffiro

Statement of philosophy

The social science major offers the opportunity to develop knowledge and skills in several disciplines. This major appeals to students who desire a broadly based experience in the social sciences. A critical element of the major is the recognition of essential understandings within academic disciplines and the relationships among the disciplines.

The social science major provides a solid background for a variety of career options. It is particularly appropriate for prospective social studies teachers at the secondary level.

Major Communication Skills

The student and major advisor will develop from one or more upper-level courses in the major a course portfolio that reflects successful demonstration of skills in reading, listening and speaking.

Social Science Major Requirements (45-47 credits)

1. Complete all courses from three of the subject areas below:

American History (at least 15 credits)

HIST 130 United States to 1877 (3) or HIST 131 United States since 1877 (3)

HIST 486 History Research Seminar (4)

At least two American HIST Electives at the 200- or 300-level (total of at least 8 credits)

World History (at least 15 credits)

HIST 125 World History to 1500 (3) or HIST 126 World History Since 1500 (3)

HIST 485 Historiography Seminar (4)

At least two World HIST Electives at the 200- or 300-level (total of at least 8 credits)

Note: The following courses may count with permission of the director. Those seeking teacher licensure should get EDUC department approval in advance.

HIST 100T TE Western Civilization: Ancient to Early Modern (3-4)

Or HIST 100T TE Western Civilization: Early Modern to Present (3-4)

Or HIST 100AP AP European History (3)

American government (at least 15 credits)

POLS 110 Introduction to American Politics (4)

And at least 11 credits from:

POLS 211 American Political Parties (4)

POLS 212 Congress (4)

POLS 213 Courts (4)

POLS 214 The Presidency (4)

POLS 215 The Politics of State and Local Governments (4)

POLS 216 Political Behavior: Political Participation, Elections, and Media (4)

POLS 316 Presidential Elections (4)

POLS 361 American Political Philosophy (4)

Economics (16 credits)

ECON 112 Principles of Microeconomics (3)

ECON 113 Principles of Macroeconomics (3)

ECON 312 Microeconomic Theory (4) or

ECON 313 Macroeconomic Theory (4)

Two 200-level or above ECON electives (6 credits total), *excluding ECON 381*

Geography (at least 15 credits)

GEOG 210 Human Geography (4)

At least 12 credits from GEOG courses, with 5 credits at the 300- level or above

Psychology (15 credits)

PSYC 122 General Psychology (3)

Two 200-level PSYC courses (total of at least 6 credits)

Two 300- or 400-level PSYC courses (total of at least 6 credits)

Sociology (15 credits)

SOC 120 Principles of Sociology (3)

Two 200-level courses (6 credits) chosen from:

SOC 225 Social Problems (3)

SOC 235 Schools and Societies (3)

SOC 241 Criminology (3)

SOC 242 Sociology of the Family (3)

Two SOC electives at the 300-level or above (6 credits)

SOCIOLOGY

Faculty

Shawn Wick (chair), Dawn Reece, Jon Witt

Statement of philosophy

Sociology is the systematic study of the relationship between the individual and society and of the consequences of difference. According to the sociological perspective, we as humans must create culture in order to establish relationships to nature and with each other. As we share the culture we construct with others, we collectively come to take its reality for granted and act according to its principles. Over time, the resulting relationships solidify, giving rise to a social structure which helps guide our actions. Because the positions we occupy within that structure play such an important role in shaping who we are and what we do, sociologists place particular emphasis on studying the impact social location has on opportunity, including analysis of factors such as age, educational attainment, ethnicity, gender, race, and social class.

The ability to understand how societies are ordered, maintained, and changed better equips students to live in a rapidly changing, increasingly diversified, and sometimes chaotic world. We believe that exposure to sociological theories and research enables students to more effectively explain why we think and act as we do, thus equipping students to make more informed choices. In addition, learning appropriate research methods prepares students to ask and answer their own sociologically informed questions. The sociological imagination, which enhances our capacity to understand the intersection between history and biography, provides students with the skills they need to follow a variety of pathways after graduation. Our majors frequently pursue careers in social work, school counseling, law enforcement, criminal justice, human resources, and not-for-profit management.

Study abroad opportunities

In an increasingly global economy, skills in cross-cultural analysis and understanding are increasingly valuable. Students are encouraged to study abroad.

Major Communication Skills

The sociology program begins to evaluate each student's reading, writing and speaking skills one semester after the student declares his/her intention to major in sociology. All available evidence will be used including results of tests, grades received in courses and information supplied by department members. Students may be required to demonstrate communication proficiency either by providing a portfolio of their writing or by writing an essay on a broad topic of sociological significance. Students who need to strengthen their communication skills may receive an outline of procedures that may include taking composition courses, developmental reading or speaking courses and working with the skills center.

Major and minor restrictions

Cultural anthropology majors may not declare a sociology minor. Sociology majors may not declare a cultural anthropology minor.

Sociology Major Requirements (36 credits)

1. Complete ***all*** of the following:
 - SOC 120 Principles of Sociology (3)
 - SOC 248 Statistics for Sociologists (4)
 - SOC 350 Methods of Social Research (4)
 - SOC 450 Sociological Theory (4)
 - SOC 485 Senior Seminar (4)
2. Complete an ***additional 17 credits*** of sociology (SOC) or anthropology (ANTH) elective courses
(at least 6 of these 17 credits must be at the 300-400 level)

Sociology Minor Requirements (18 credits)

Complete ***18 credits of SOC and/or ANTH courses***, with at least 6 credits at the 300-400 level.

SPANISH

Faculty

Mary Stark (chair), Kathy Korcheck, Allison Krogstad, Samuel Mate-Kodjo, Óscar Reynaga

Statement of philosophy

The Spanish program faculty believes that intercultural understanding and appreciation should be a fundamental part of a student's education, and the ability to communicate (listen, speak, read and write) in another language is essential for attaining intercultural understanding. Students must learn what members of other cultures consider worth talking about: their historical, artistic and literary heritage; their contemporary political, social and economic problems; and their basic customs and values. Students must also gain an understanding of their own cultural perspective. Spanish course offerings are intended to build communication skills and insight into important topics of culture. All courses aim to increase language proficiency and cultural awareness as well as to prepare students for an extended off-campus immersion in a culture where the target language is spoken.

Study abroad opportunities

All Spanish majors are required to participate in an approved study abroad program. Before departure, students should review with their advisor those courses offered abroad that can be used to meet major requirements. Students seeking a minor in the department are encouraged to study abroad as well.

Teaching licensure

Students seeking teaching licensure must secure information from the department of Language, Literature, and Communication and the department of education concerning departmental and state requirements.

Foreign language credit by proficiency

For information on earning credit by proficiency in a foreign language, please see the "[Credit by Proficiency](#)" section of this catalog.

Spanish Major Requirements (minimum 32 credits)

(Note: A student may have to complete 4-20 hours of prerequisites before starting SPAN 322 or 324, depending on the level into which the student places.)

1. Complete at least one of the following:

- SPAN 322 Advanced Spanish II (4)
- SPAN 324 Spanish for Heritage Learners (4)

2. SPAN 323 Introduction to Hispanic Literature (3)

3. Complete a minimum of 24 additional hours/ credits of courses taught in Spanish at the 300 or 400-levels (on-campus courses and/ or courses taken abroad).

4. SPAN 488 Senior Capstone Project (1)

5. Participation in a study abroad program approved by the Spanish faculty.

6. All courses must be conducted in Spanish.

Spanish Minor Requirements (minimum of 7 credits)

(Note: A student may have to complete 4-20 hours of prerequisites before starting SPAN 322 or 324, depending on the level into which the student places.)

1. Complete at least one of the following:

- SPAN 322 Advanced Spanish II (4)
- SPAN 324 Spanish for Heritage Learners (4)

2. Complete at least one of the following:

- SPAN 323 Introduction to Hispanic Literature (3)
- SPAN 325 Spanish Conversation Through Film (4)

STRENGTH AND CONDITIONING

Faculty

David Pavlat (program director), John Roslien (Kinesiology chair), Adam Bradley, Leslie Duinink, Jim Fuller, Shelli Green, Kyle Johnson, Monica Ruiz, Matthew Sagar, Sara Shuger Fox, Katelin Valster

Statement of philosophy

The strength and conditioning program will provide experiences in collaboration with strength and conditioning professionals enabling the strength and conditioning student to master the student outcomes as prescribed by the Council on Accreditation of Strength and Conditioning Education (CASCE) necessary to be a competent, professional entry level strength and conditioning coaches. Strength and conditioning education will occur within the liberal arts framework and the mission of Central College. This will occur through interactions with staff, faculty, practicum instructors and peers within the College and the Pella community.

The Kinesiology Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation for the Exercise Sciences.

The Kinesiology department's Strength and Conditioning and Personal Training Program are a National Strength and Conditioning Association (NSCA) Education Recognition Program (ERP) School. The seal of approval is a commitment that the Kinesiology department makes to help students grow as strength and conditioning and personal training professionals. The Strength and Conditioning Major is accredited through the Council on Accreditation of Strength and Conditioning Education. (CASCE).

The primary objective of the Central College Strength and Conditioning Program is to prepare entry-level strength and conditioning coaches. Strength and conditioning program students are provided with practicum experiences that develop and enhance their skills. The practicum experiences are an extension of the academic classroom and allow students to master program outcomes.

Admission to the Strength and Conditioning Program

Students interested in applying to the strength and conditioning program and majoring in strength and conditioning should contact the program director. The application and interview process will occur during the freshman or sophomore year, prior to officially beginning the program. The requirements to complete the strength and conditioning program include five semesters of coursework over three years. To receive an application, student handbook, copy of the technical standards, transfer policy, GPA requirements, and to get the most current information regarding this program, contact the director of the Strength and Conditioning Program, or go to www.central.edu.

Major Communication Skills

A communication skills endorsement from the Strength and Conditioning Program indicates students have achieved college level mastery in both the written and verbal domain. Communication skills will be assessed using predetermined rubric tools in the following classes: KIN 111, KIN 149, KIN 151, KIN 254, KIN 257, KIN 334, KIN 460 and KIN 461. Students assessed as needing further development will be referred to the S&CP program director for a prescriptive plan to improve their communication skills.

Major Restrictions

Students may not declare majors in both Kinesiology and Strength and Conditioning. As a Strength and Conditioning major, students may not declare a Kinesiology minor.

Major Requirements (57 credits)

1. Complete all of the following:

- KIN 111 Essentials of Human Anatomy and Physiology with Lab (4)
- KIN 120 Theory and Practical Application of Health-Related Fitness (3)
- KIN 149 Introduction to Kinesiology (3)
- KIN 151 First Aid and Sports Injuries (3)
- KIN 213 Principles of Coaching (3)
- KIN 254 Human Anatomy and Kinesiology with Lab (4)
- KIN 257 Fitness Assessment and Exercise Prescription with Lab (4)
- KIN 330 Exercise Psychology (4)
- KIN 334 Sports Nutrition (4)

KIN 361 Biomechanics with Lab (4)
KIN 460 Exercise Physiology (3)
KIN 461 Exercise Physiology Lab (2)
SC 121 Theory and Practical Application of Skill-Related Fitness (3)
SC 293 Practicum in Strength and Conditioning I (3)
SC 372 Principles and Theories of Strength and Conditioning (4)
SC 393 Practicum in Strength and Conditioning II (3)
SC 493 Practicum in Strength and Conditioning III (3)

COURSES OF INSTRUCTION

Accounting

ACCT 241 Introduction to Financial Accounting (3)

Examines the financial accounting function of business entities. Develops an understanding of the financial information in published financial statements (income statement, balance sheet, cash flow statement, and equity statement). Examines the role of financial data in the decision-making process of "investors" and other "outsiders" of the business entity.

ACCT 242 Introduction to Management Accounting (3)

Prerequisite: ACCT 241. Focuses on providing information useful for internal decision-making in production, merchandising, government and service-oriented enterprises. Primary emphasis given to understanding of costs and cost behavior and the use of cost information for planning, controlling, decision-making performance evaluation and product costing. Introduces recent developments in management accounting, such as activity-based costing (ABC) and Just-in-Time (JIT). Development and use of electronic spreadsheets is emphasized.

ACCT 321 Data Analytics for Accounting (3)

Prerequisite: ACCT 242. The class will explore accounting concepts through the application of data analytics. Students will develop skills to ask the right question and learn how to use tools they may find in the workplace. The course will move from discovering what happened to analyzing the data to determine why it happened and then interpreting the results in order to make business decisions.

ACCT 341 Intermediate Financial Accounting I (3)

Prerequisite: ACCT 241 (grade of B or better recommended). Examines the current state of financial accounting theory, standards, principles and practices. Studies theoretical and practical problems of measurement and valuation related to the determination of net income, revenue recognition, cash flow and presentation of financial position. Emphasizes the asset section of the balance sheet.

ACCT 342 Intermediate Financial Accounting II (4)

Prerequisite: ACCT 341. Examines the current state of financial accounting theory, standards, principles and practices. Studies theoretical and practical problems with emphasis on special topics: long-term debt, capital stock, leases, pensions and other post-employment/retirement benefits, deferred tax, accounting changes/error corrections, cash flow statement and financial statement disclosures.

ACCT 343 Advanced Management Accounting (3)

Prerequisite: ACCT 242, and MATH 105 or MATH 215; or consent of the instructor. Examines the nature of accounting data as related to managerial functions of planning, controlling, decision-making, performance evaluation, and product costing. Major topics include cost accumulation, analysis, allocation and estimation (including statistical methods), budgeting and standard costing with variance analysis.

ACCT 344 Principles of Taxation (3)

Prerequisite: ACCT 241. Studies the general framework of the determination of income tax for an individual, with an emphasis on successful tax preparation.

ACCT 346 Government and Non-Business Accounting (3)

Prerequisite: ACCT 242. Studies the accounting procedures and financial reporting of governments and non-business entities. Examines the state and local government entities under the control of the GASB. Examines the financial reporting requirements of not-for-profit entities under the control of FASB, including: colleges and universities, hospitals and health care organizations, charities (501c2 and 501c3), and other non-profit entities.

ACCT 347 Accounting Information Systems (3)

Prerequisite: COSC 109 or COSC 110. Pre- or corequisite: ACCT 242. Introduces students to the role information systems plays in accomplishing the objectives of financial accounting, managerial accounting, tax accounting and auditing. Students study the principles of systems design, relational databases, and the controls in accounting information systems; the flows of information through the various accounting cycles and the corresponding internal controls; the information flows using the traditional accounting model with an emphasis on the use of current database technology, including data modeling.

ACCT 348 Principles of Auditing (3)

Prerequisite: ACCT 242. The course focuses on an accountant's role in planning, risk assessment, audit procedures, obtaining evidence, and reporting for audit, attestation, and accounting and review service engagements. The course incorporates professional skepticism and professional judgment with a focus on the critical assessment of evidence and the need to apply knowledge and experience to make informed decisions

ACCT 350 Vita, Volunteer Income Tax Assistance (3)

Prerequisite: ACCT 344 or instructor's permission. Students will prepare and review client tax returns at VITA clinics held on campus. Class time will be spent training and planning for clinics, discussing continuous improvement in VITA program, and reflecting on the experience post-filing-season. This class requires significant out-of-class service learning hours on Tuesday afternoons and/or Saturday mornings. May be repeated.

ACCT 390 Topics (Arr)

Prerequisite: instructor's permission. Selected topics in accounting may be offered, depending upon student and staff interest.

ACCT 397 Internship (Arr)

Prerequisite: BMGT 311, ACCT 242, third-year standing and instructor's permission. Available only to students who have declared a major in the department. The seminar attempts to sensitize the student to work experience and provide communication with other students to discuss their mutual experience. May be repeated for a maximum of 9 credits total. Pass/No credit basis.

ACCT 441 Advanced Financial Accounting (3)

Pre- or corequisite: ACCT 342. Studies specialized financial reporting problems, including those related to investments in financial and derivative assets, the equity method of accounting, the entity concept (consolidated financial statements and international accounting operations), and non-corporate business reporting.

ACCT 442 Fraud Examination and Auditing (4)

Prerequisite: ACCT 347. This course will serve as an introduction to fraud examination, auditing, and assurance services that builds on coursework in management, financial accounting, and systems. The course will include an in-depth examination of the COSO internal control framework, followed by auditing and fraud examination concepts, both of which rely heavily on internal control concepts.

ACCT 445 Advanced Taxation (3)

Prerequisite: ACCT 241 and ACCT 344. Studies the specific tax code for corporations, estates and trusts. Relates the process of converting financial GAAP accounting to reporting under the IRS code.

ACCT 485 Accounting Research Seminar (1)

Prerequisite: senior standing and declared accounting major. Students conduct research on a substantive accounting topic in the areas of financial, managerial, tax, auditing, consolidations, international, information systems, not-for-profit, or governmental. A formal presentation to accounting faculty and senior majors is required. Pass/No Credit basis.

ACCT 499 Independent Study (Arr)

Prerequisite: instructor's permission. An independent research experience for senior majors.

Anthropology

ANTH 120 Introduction to Cultural Anthropology (3)

Introduction to the field of cultural anthropology. Students will explore human cultural diversity from small-scale hunter-gatherer societies to large-scale industrial societies. Areas covered include ethnicity, gender roles, religion, warfare and the environment. Special attention is given to the way anthropologists gather and analyze information on different cultures. (SB and GPC or GPN, EXP) Students may not receive credit for both GPC and GPN.

ANTH 275 Magic, Science, and Religion (4)

Prerequisite: Second-year standing. Explores the ways in which human beings perceive and experience the world. We use discussion, reading and writing to delve into these three, and other, modes of cognition and action. In this effort we confront witchcraft, spirit possession, ritual, and other phenomena of anthropological interest, inquiring as to methods, ethics, and personal viewpoints. (SB, GPN)

ANTH 366 Ethnographic Field Methods (4)

Prerequisite: ANTH 120 or SOC 120 and third-year standing or instructor's permission. Surveys field methods used by cultural anthropologists, encompassing readings, discussion and practicum. Methods include interview, participant observation, survey, mapping, archival research, life history and others. (SB, WRT)

ANTH 370 Anthropology of Violence (4)

Pre-requisite: Second-year standing, third-year standing recommended. This upper level seminar on the anthropology of violence considers major areas in the study of violence including war and peace, gendered violence, genocide, human rights abuses, the silencing of violence, and writing/speaking about violence. The methods of ethnographic research are applied to arenas of violence, and related ethical issues are examined. Students participate in a practicum involving cases of asylum resulting from violence. Discussion of readings is complemented by careful and examined writing of analytical and research papers. (SB and GPC or GPN) Students may not receive credit for both GPC and GPN.

ANTH 375 Ethnographic Writing (4)

Prerequisite: second-year standing and a prior course in anthropology, English or sociology. Explores modes of writing about culture and place. Moving beyond the scientific realist style typically used in anthropology, we try our hands at ethnographic writing focusing on landscape, dialogue, voice, poetry, emotion, politics, and more. Intensive research in local communities allows us to experiment with note taking and collaboration in ethnographic work, and we discuss the ethical issues that arise in contemporary anthropology. (SB, WRT)

ANTH 397/497 Internship (Arr)

Prerequisite: departmental approval and instructor's permission. An applied experience in the major, requiring a minimum number of hours of work per credit hour. Includes conferences with the on-campus instructor and an evaluation by the job supervisor. Pass/No Credit basis.

ANTH 462 Culture Theory (4)

Prerequisite: ANTH 120 or instructor's permission. An examination of the history and development of anthropological theory, with emphasis on the contributions of prominent theorists.

ANTH 465 Applied Anthropology (4)

Prerequisite: anthropology or sociology major and third-year standing. Provides students with opportunity to apply anthropological understanding outside of the classroom as researchers, interns or volunteers in community and/or organizations. Readings and weekly meetings will provide insight and depth into students' experiences.

ANTH 485 Seminar in Cultural Anthropology (3)

Prerequisite: Anthropology major or instructor's permission. The capstone course designed for cultural anthropology majors. Students will explore issues related to the four fields of American anthropology: physical anthropology, archaeology, linguistic anthropology and sociocultural anthropology.

ANTH 498 Research in Anthropology (Arr)

Students plan, carry out and write up original anthropological research projects in an off-campus location, for example, the Basque Ethnographic Research Project.

ANTH 499 Independent Study: Anthropology (Arr)

Designed to permit students to pursue their interest in specialized areas of anthropology in greater depth than is possible in other courses offered by the department. Restricted to upper-class majors.

Art

ART 110 Art and Architecture of the Ancient World (4)

A broad survey of painting, sculpture, and architecture from prehistoric to late antiquity. Students are introduced to the field of art history as they learn to identify, interpret, and distinguish the art and architecture of various periods, styles, and cultures including Ancient Near Eastern, Egyptian, Greek, and Roman. Works of art are studied in their historical context with emphasis on the cultural values revealed in them. (ART)

ART 151 2D Problem Solving (4)

This course is a workshop intensive introduction to the fundamental theory and practice of studio art. In class group and individual critiques will supplement the studio practice. Various materials, techniques and concepts within studio art will be explored including, but not limited to, the elements and principles of design, color theory, collaboration, idea generation, digital media and critical analysis. No previous experience in art required. (ART, EXP)

ART 161 3D Problem Solving (4)

A foundation studio art course that examines the elements of visual organization and the communicative possibilities of materials as they apply to three-dimensional forms. Investigates the relationship of form and content through emphasis on idea generation, problem solving, basic three dimensional studio techniques, and art vocabulary sufficient to analyze sculptural forms. (ART, EXP)

ART 221 Medieval Art and Architecture (3)

Examines art and architecture produced during the Middle Ages in Europe (from the fourth century CE through the Gothic era, ca. 1400 CE). We will explore major artistic monuments and movements, and analyze how works of art serve as tangible crystallizations of the religious, social, liturgical and historical circumstances of their period and culture. The class will consider art in a variety of media, focusing on painting, sculpture, and architecture. Students will be encouraged to approach each period through key monuments or objects, analyzing each within its own particular cultural perspective. (ART, EXP)

ART 222 Renaissance Art and the Modern World (3)

Explores the idea of renaissance/rebirth in art and architecture starting with the Italian Renaissance, then expands to examine its impact across time and place. Introduces students to the skill of close observation to build interpretations of art and architecture and the ways in which those skills translate across disciplines. Examines and analyzes different periods, styles, locations, and cultures within their specific historical contexts. Investigates how social, cultural, religious, spiritual, economic, political, and material factors influence artists' changing perception of, and responses to, their world. (ART)

ART 241 Art, Science, and Knowledge-Making, 1500-1800 (3)

Examines the range of intersections between art-making, scientific knowledge, and "ways of knowing" in the Early Modern era (c. 1500-1800) through themes and case studies. Introduces the principles, basic methods, and terminology of art historical analysis. Explores the role and exchange of visual communication between artists and thinkers within the social, cultural, religious, economic, political, and material contexts that influenced changing perceptions of, and responses to, an expanding world and new knowledge. (ART)

ART 242 Netherlandish Art, 1400-1650 (3)

This course surveys the principal developments in paintings created in Flanders (today's Belgium) and the Low Countries between 1400 and 1650. It aims to provide students with an understanding of fundamental artistic characteristics of Flemish and Dutch art from the Renaissance to the Baroque period, as well as the socioeconomic, cultural, material, and intellectual contexts in which artworks were produced, consumed, and circulated. The course draws upon the canonical works of such artists as Van Eyck, Bruegel, Rubens, Rembrandt, and Vermeer. (ART)

ART 250 Drawing Traditional and Digital Approaches (4)

In this hands-on studio workshop students will learn to manipulate the unique characteristics of drawing, in both traditional and digital media, to give visual form to ideas, create the illusion of space, draw Proportionately and ultimately convey meaning to an audience. Examination of select drawings throughout history will provide historical context while informing the critical analysis of the images created. The portfolio of imagery developed by the end of this course will demonstrate a student's ability to create technically proficient and meaningful images. Marketable skills developed in this course will be particularly applicable to the fields of illustration and graphic design. Critical analysis in both oral and written form will supplement the studio practice. No prior experience in drawing required. Students who took ART-290, Drawing: Traditional to Digital, in 22/SP cannot take this course. (ART)

ART 252 Painting Traditional and Digital Approaches (4)

In this hands-on studio workshop students will learn to manipulate the unique characteristics of painting, in both traditional and digital media, to give visual form to ideas, learn the complexities of color theory as it applies to both pigment and light, and ultimately convey meaning to an audience. Examination of select paintings throughout history will provide historical context while informing the critical analysis of the images created. The portfolio of imagery developed by the end of this course will demonstrate a student's ability to create technically proficient and meaningful images. Marketable skills developed in this course will be particularly applicable to the fields of illustration and graphic design. Critical analysis in both oral and written form will supplement the studio practice. No prior experience in drawing required. Students who took ART-290 Painting: Traditional to Digital, in 21/FA cannot take this course. (ART)

ART 255 Printmaking (4)

A hands-on studio art course exploring the fundamental theory, history, and practice of printmaking. Students will integrate content using a variety of traditional and non-traditional printmaking techniques that may include, but not be limited to, woodcut, linoleum cut, etching, and monoprint. While exploring the historical link between printmaking, book arts and papermaking, students will learn to make handmade paper from recycled materials. Critical analysis, interpretation and regular critiques will supplement the studio practice. (ART)

ART 262 Ceramics I (4)

Prerequisite: second-year standing. A studio art course exploring clay as an art medium through the basic ceramic processes commonly used by potters and sculptors, including hand-building, throwing, surface treatment, glazing, and firing. (ART)

ART 265 Glassblowing I (3)

Prerequisite: instructor's permission. An introduction to the techniques of off-hand glassblowing. Emphasis will be on the development of skills of working with the plastic and spontaneous qualities of molten glass. (ART)

ART 267 Metalsmithing I (4)

Prerequisite: second-year standing. A studio art course investigating the concepts, processes, and materials for jewelry, hollowware, and small sculptural objects. The practice of organizing three-dimensional form will be explored through such techniques as casting, smithing, fabrication, and finishing processes. The primary materials explored will be nonferrous metals: brass, copper, and sterling silver. (ART)

ART 270 Book Arts: Traditional Structures (4)

A hands-on studio art course exploring the fundamental theory, history, and practice of creating handmade books using traditional structures. Students will learn to construct handmade books using 1, 2, and 3 section sewing techniques, French chain binding, and Coptic binding techniques among others. Initial projects will focus on mastery of technique while later projects will begin to integrate content. The historical link between book arts and papermaking will also be examined. Critical analysis, interpretation and regular critiques will supplement the studio practice. (ART)

ART 295 Practicum in Gallery Management (1)

Prerequisite: instructor's permission. Offers experience in art gallery management including organizing and installing exhibitions, docent duties and marketing of the gallery. May include some graphic design work. May be repeated. Pass/No Credit basis.

ART 325 History of Modern Art (4)

Explores the origins and development of avant-garde modern art in Europe from the late-18th century to the 1930s. Students examine various artistic movements and styles within their cultural and historical contexts, focusing on the interrelation of ideas and concepts about art and history. (ART, WRT)

ART 350 Drawing and Painting: Conceptual Approaches (4)

Prerequisite: second-year standing. A hands-on studio art course emphasizing conceptual and thematic approaches to the creative practice of drawing and painting. Critical analysis and interpretation of work will be ongoing with regular group and individual critiques. We will focus on visual communication, idea generation, historical context as well as artistic influences. Previous experience in studio art class recommended. (ART)

ART 353 Visual Narratives (4)

Prerequisite: second-year standing. In this hands-on workshop-oriented class, students will learn to create engaging visual stories which may include but not be limited to, four panel comics, multipanel graphic novelettes, and storyboards for video among other visual narratives. This cross-disciplinary process will include creative writing, critically analyzing visual works, storyboarding, and illustration in a variety of media. No previous experience in art is required. Students who took ART-290, The Graphic Novel, in 22/SP cannot take this course. (ART)

ART 362 Ceramics II (4)

Prerequisite: ART 262. A continuation of Ceramics I focused on more complex hand-building and wheel throwing construction methods, exploration into various glazing methods as well as an introduction to firing procedures. Emphasis on individual direction and technical achievement.

ART 365 Glassblowing II (3)

Prerequisite: ART 265 and instructor's permission. A continuation of working with molten glass as a medium of expression. Emphasis will be on developing a more personal style while continuing to improve technical skills and understanding of the processes.

ART 367 Metalsmithing II (4)

Prerequisite: ART 267. A continuation of Metalsmithing I with both individually arranged and structured projects exploring more complex construction and statements in jewelry and small sculpture from metal. Emphasis on conceptual and technical achievement.

ART 380 Advanced Studio (3)

Prerequisite: Any 300-level studio course and instructor permission. A studio course that provides students an opportunity to explore individual advanced problems in art. Emphasis on developing a successful body of artwork. Stresses work presentation and portfolio development.

ART 397 Internship in Art (Arr)

Prerequisite: instructor's permission. The internship provides an opportunity for the student to explore a career option in the major field of study. Pass/No Credit basis.

ART 399 Independent Study (Arr)

Prerequisite: third-year standing, several art courses and instructor's permission. Provides an opportunity for students to explore individual problems in art. May be repeated for a maximum of 6 credits.

ART 425 Theory, Criticism, and Art Since 1945 (4)

Prerequisite: ART 325 or instructor permission. A study of contemporary artistic theory and practice focusing on the ideas and issues that have informed art criticism of the past 40 years.

ART 485 Senior Seminar in Art (4)

Prerequisite: senior standing and art major. This course is the art major capstone experience. Emphasizes professional presentation and stresses advanced work. A mature body of work is created through the course of the semester and presented during the senior exhibit. Team-taught by art faculty.

Behavioral Science

BEHS 285 Not-for-Profit Seminar (1)

An examination and discussion of not-for-profit management in the United States for students interested in possible careers in this field. Meets once a week with each session devoted to a different aspect of the field. Each topic is explored jointly by students, faculty, and practitioners.

BEHS 397 Internship in Not-for-Profit Management (3)

Biology

BIOL 118 Environmental Problems and Midwest Ecosystems with Lab (4)

One of the most endangered ecosystems on earth is not in a distant place, but in Iowa. This course examines Midwestern ecosystems and environmental problems impacting them. Course goals are to increase knowledge and appreciation for nature in the Midwest and examine major environmental problems impacting Iowa, focusing on their causes and solutions. Students will spend a significant amount of time outdoors, and will design and conduct a research project. Includes one 3-hour lab. Does not count toward the Biology major. Students cannot receive credit for BIOL 118 and BIOL 123 or ENVS 120. (NS, GS)

BIOL 130 Diversity of Life with Lab (4)

An exploration of the major groups of organisms and of evolution as the source of biological diversity and the unifying principle of the biological sciences. The coverage of biological diversity includes basic structure and function, ecology and behavior. Laboratories allow students to experience the diversity of life firsthand with living examples of many groups. Includes one three-hour lab per week. (NS, EXP)

BIOL 131 Introduction to Cells with Lab (4)

Prerequisite: High school chemistry. An introduction to the cellular basis for life; includes the chemical building blocks of life, cell structure, membrane function, cellular energetics, cell reproduction and heredity and the elements of molecular genetics. Includes one three-hour lab per week. (NS)

BIOL 201 Introduction to Human Anatomy and Physiology I with Lab (4)

This is a two-course sequence surveying the structure and function of the human body; designed for certain pre-health programs such as nursing and occupational therapy where students are not seeking a science major. This course will cover body organization, basic cell structure and function, tissues, integumentary system, skeletal system, muscular system, nervous system and endocrine system. Includes one three-hour lab per week that involves significant laboratory experience including some dissection, examination of histological specimens, preserved organs and anatomical models. Does not count toward the Biology major or minor. (NS)

BIOL 202 Introduction to Human Anatomy and Physiology II with Lab (4)

Prerequisite: Completion of BIOL 201 with a grade of C or higher. This is the second of a two-course sequence surveying the structure and function of the human body; designed for certain pre-health programs such as nursing and occupational therapy where students are not seeking a science major. This course will cover the cardiovascular system, lymphatic system, digestive system, respiratory system, urinary system, reproductive system and will conclude with growth and development. Includes one three-hour lab per week that involves significant laboratory experience including physiological experimentation, some dissection, examination of preserved organs and anatomical models. Does not count toward the Biology major or minor.

BIOL 205 Natural History of American Ecosystems (2)

Prerequisite: BIOL 130. Students will be immersed in a detailed study of ecosystems found in a region. The overall goal is to increase understanding of the biological and physical factors that interact to build ecosystems. We also will address conservation issues impacting the area and learn to recognize important species or groups of species. The course will meet once a week during the second half of the spring semester and will conclude with a nine day trip to visit that ecosystem during late spring / summer. Students must attend both the class and the trip to receive credit. An extra fee will be assessed and students must buy their own food. This course does not count toward the biology major or minor.

BIOL 210 Epidemiology (3)

Introduces the basic concepts and principles of epidemiology and biostatistics as applied to public health problems, including historical overview; descriptive methods and sources of data; diagnostic screening; study designs; analytical tools; measures of association; bias and confounding factors. Emphasis is placed on methods of epidemiologic investigation, appropriate summaries and displays of data, and the use of classical statistical approaches to describe the health of populations, as well as critical evaluation and interpretation of public health research, using examples from the literature. (NS, GS)

BIOL 221 Genetics and Evolution with Lab (4)

Prerequisite: BIOL 131 and second-year standing. An introduction to genetic and evolutionary analysis. Coverage includes both classical and molecular genetics and evolution in the following areas: Mendelian analysis, linkage, mutation, changes in chromosome structure and number, the relationship between genetics and the central dogma, gene expression, sex determination, and their relationship to the evolution of populations and speciation. Laboratory will use both classical and molecular techniques to illustrate key concepts. One three-hour lab per week.

BIOL 229 Ecology and Evolution with Lab (4)

Prerequisite: BIOL 130 and BIOL 131. Analyzes the patterns present, and processes operating, in ecological populations, communities and ecosystems. Emphasis on ecology as a driver of evolution and the resulting adaptations in organisms. Laboratories introduce students to field methods and quantitative analyses, and allow students to conduct research, explore and interpret data, and present results. One three-hour lab per week. (GS)

BIOL 310 Tropical Ecology (1-4)

Prerequisite: BIOL 130 or instructor's permission. Introduces students to marine and terrestrial ecosystems in the tropics. Meets once a week during the semester and during a 17 day trip to Belize and Costa Rica or other tropical regions during winter break to explore several different ecosystems including coral reefs, tropical dry forests, cloud forests and tropical lowland forests. Students are required to attend both the trip and the lectures to receive credit. Students enrolling in this course must pay an additional fee and pay for airline tickets and other expenses. (NS)

BIOL 320 Evolution with Discussion Lab (4)

Prerequisite: BIOL 221 and BIOL 229. An overview of evolution as the unifying principle of the biological sciences, with coverage of the origins of evolutionary thought, population genetics and phylogenetics. Includes workshop activities on topics such as population genetics, morphometrics and phylogeny reconstruction as well as review of the primary literature. One two-hour discussion lab per week. (WRT)

BIOL 321 Comparative Vertebrate Anatomy with Lab (4)

Prerequisite: BIOL 130. A comparative analysis of vertebrate structure, with morphology interpreted in a phylogenetic context. Emphasis on the major morphological changes that have occurred during the half-billion years of vertebrate evolution. Laboratories involve dissection of the dogfish shark and the mink, as well as examination of much additional vertebrate material. Includes one three-hour lab per week.

BIOL 324 Field Botany with Lab (4)

Prerequisite: BIOL 130 and 131. An examination of the ecology, evolution and systematics of plants. Emphasis on the evolutionary relationships and natural history of the flora of Iowa. Extensive laboratory and field work including a weekend field trip will introduce the students to methods of plant identification, taxonomy and botanical field studies. Includes one three-hour lab per week.

BIOL 341 Human Physiology with Lab (4)

Prerequisite: BIOL 131 and CHEM 231. Description of the anatomical structure and analysis of the molecular mechanisms of action of each of the vertebrate organ systems, including their nervous and hormonal control. Emphasis given to human systems but contrasting mechanisms from other vertebrate classes are included where possible and appropriate. Laboratory may include some experimentation with living tissue. Includes one three-hour lab per week.

BIOL 342 Mammalogy with Lab (4)

Prerequisite: BIOL 130 or instructor's permission. Topics to be covered include anatomy, physiology, behavior, ecology, evolution, identification and conservation. Lab will include numerous field trips (some outside of regular class time) to capture bats and other mammals. Labs emphasize anatomy, field biology and identification of mammals, as well as census and capture techniques.

BIOL 343 Ornithology with Lab (4)

Prerequisite: BIOL 130 or instructor's permission. Provides an overview of the biology of birds including their anatomy, evolution, behavior, reproduction, ecology and conservation. Introduces students to techniques of identifying birds, focusing on species commonly found in the Midwest. The lab will be heavily field-oriented in the early mornings, so students must be prepared to be outside in all weather conditions, and willing to be quiet during observation of birds. Students are required to attend all field trips. The class may also include an optional weekend field trip.

BIOL 345 Limnology with Lab (4)

Prerequisite: BIOL 130. A comparative study of inland waters, including streams, ponds, lakes and wetlands. Examines the geology, biology, chemistry, physics and management of aquatic systems. Laboratory and field work, including a weekend field trip, will introduce students to the techniques of sampling and analysis. One three-hour lab per week. Additional lab fee applies.

BIOL 350 Conservation Biology and Ecology of Iowa (4)

Prerequisite: BIOL 130. Students will explore terrestrial ecosystems of Iowa, examining their ecology and the biology of the dominant organisms forming them. Furthermore, we will learn the basic principles of conservation biology and how these concepts are relevant to nature in the Midwest. Labs will be field-based, and students will explore, study, and manage ecosystems in our area. Participants must be prepared for field work in rugged landscapes and all kinds of weather. (GS)

BIOL 360 Human Anatomy with Lab (4)

Prerequisite: BIOL 131. Provides students with knowledge of the structure of the human body and illustrates the connections between structure and function. Follows a systems approach with review of the fundamentals of cell biology, an introduction to tissues, developmental biology, and nomenclature and conventions used to study human anatomy. Systems covered include the integumentary, musculoskeletal, cardiovascular, lymphatic and immune, nervous, endocrine, respiratory, digestive, urinary and reproductive.

BIOL 361 Microbiology with Lab (4)

Prerequisite: BIOL 131 or instructor's permission. A comprehensive overview of the biology of bacteria with discussions on archaea, eukaryotes, and viruses. Course topics include microbial structure/ function, physiology, genetics, host-microbe interactions, immunology, and ecology. The laboratory includes techniques in bacterial isolation, culture, quantitation, light microscopy, and physiological testing.

BIOL 364 Molecular Biology (3)

Prerequisite: BIOL 221 and CHEM 231. A comprehensive overview of the structure, metabolism, and regulation of DNA, RNA, and proteins.

BIOL 397 Internship in Biology (Arr)

Prerequisite: BIOL 130, 131 and instructor's permission. Students work under supervision of professional biologists in practical application of biological principles. Students considering an internship should confer with the department chair after obtaining the consent of one of the department staff to serve as supervising professor. Offered on demand. Pass/No Credit basis.

BIOL 499 Independent Study in Biology (1-4)

Prerequisite: BIOL 386 and instructor's permission. A research-oriented experience designed to focus on a well-defined problem identified in BIOL 386. Conduct of the research, analysis of the data and writing of the senior thesis are done in consultation with a supervising professor. No more than 4 credits may be taken pursuant to the major without approval of the department chair.

Business Management

BMGT 211 Business Writing and Speaking (3)

Prerequisite: ACCT 241. This course explores the difference between academic and business writing conventions. Students will practice writing to specific audiences using a variety of organizational patterns. Finally, the art of revision will be reviewed. (Previously taught as BMGT-290) (WRT)

BMGT 231 Business Law I (3)

Prerequisite: Declared major in business management, accounting, or economics or department chair permission, second-year standing. Studies the legal process and the public and private law relating to business. Examines the underlying principles most closely connected with ordinary business transactions: introduction to the law, agency, contracts, sales and commercial paper.

BMGT 261 Principles of Finance (3)

Prerequisite: ACCT 241. This course introduces some basic concepts in financial management and their application to corporate financing and investment decisions. Topics covered will include financial statement analysis, time value of money, bond and stock pricing, capital budgeting, risk and return, and capital structure.

BMGT 271 Principles of Marketing (3)

Prerequisite: ACCT 241 and ECON 112 or ECON 113. Emphasizes a theoretical and practical understanding of the role of marketing in society. Focuses on managerial decision-making regarding markets, products and services, promotion, distribution and pricing to satisfy customer needs and organizational goals.

BMGT 311 Principles of Management (3)

Prerequisite: ECON 112, ECON 113 and ACCT 241. Explores the skills utilized in management, focusing on six key functions: planning, organizing, leading, controlling, decision-making and staffing. Concepts and methods used in managing people and organizations are examined.

BMGT 335 Not-for-Profit Management (3)

Prerequisite: BMGT 311 or instructor's permission. A course in which students utilize analytical skills to make managerial decisions in not-for-profit organizations. Emphasizes marketing and fund-raising plans.

BMGT 341 Social Entrepreneurship (3)

Prerequisite: BMGT 311. Introduces the principles of social entrepreneurship. Focuses on social enterprises, or hybrid organizations that seek both to make a profit and to achieve a social good. Course topics include identification of different types of social entrepreneurs and social enterprises; legal structures and certification processes for social enterprises; importance of building and maintaining connections to stakeholders; evaluation of social enterprise effectiveness; global aspects of social entrepreneurship; and current social enterprise trends.

BMGT 352 Human Resource Management (3)

Prerequisite: BMGT 311 and third-year standing. Concentrates on the human resource management functions of selection, performance appraisal, training and development and compensation. Focuses on the laws and current issues related to these functions. Special topics include equal employment opportunity, Affirmative Action, sexual harassment and discrimination.

BMGT 362 Principles of Investment (3)

Prerequisite: BMGT 261, MATH 105 or MATH 215 and ECON 112 or ECON 113. Concentrates on capital markets, security analysis and portfolio management. Classical and contemporary theories concerning optimum portfolio construction and asset allocation will be emphasized.

BMGT 363 Advanced Financial Management (3)

Prerequisite: BMGT 261, and ECON 112 or ECON 113. Focuses on modern theory of corporate finance and its application to financial decisions. Topics such as leasing, the investment banking process, convertible securities and warrants, mergers and divestiture, leveraged buyouts and international financial management will be thoroughly examined.

BMGT 372 Consumer Behavior (3)

Prerequisite: BMGT 271. Analyzes personal and interpersonal influences on buyer behavior. Topics include perception, dissonance, imagery, lifestyle, culture, social class, the family and marketing communications.

BMGT 373 Marketing Management (3)

Prerequisite: BMGT 271. Studies marketing issues in an ever-changing global economy. Emphasizes the marketing manager's role in developing, implementing and analyzing goal-oriented strategies in both profit and nonprofit organizations. Major topics include marketing research; promotion, pricing and distribution strategies; and new product development.

BMGT 375 Marketing Research (3)

Prerequisite: BMGT 271 and MATH 105 or MATH 215. An introduction to the methodology and analysis of marketing research. Explores the uses of marketing research in management decision making. Students will design, conduct, analyze and present the results of marketing research projects. Topics include research design, data acquisition and analysis, creation of research reports and research ethics.

BMGT 379 International Marketing (3)

Prerequisite: BMGT 271. Emphasizes the marketer's role in analyzing how cultural, social, political, and economic factors affect marketing decision-making in an international context. Focuses on the opportunities and challenges associated with the increasing globalization of markets.

BMGT 381 Operations Management (3)

Prerequisite: BMGT 311, MATH 105 or MATH 215 and third-year standing. Investigates the production and operations function of the firm and the decision-making framework related to the function. Emphasizes quantitative models useful in production and operations.

BMGT 390/490 Topics (Arr)

Prerequisite: instructor's permission. Selected topics in management may be offered, depending upon student and staff interest.

BMGT 397 Internship (Arr)

Prerequisite: BMGT 311, ACCT 242, third-year standing and instructor's permission. Available only to students who have declared a major in the department. May be repeated for a maximum of 12 credits total. Pass/No Credit basis.

BMGT 462 Derivative Markets (3)

Prerequisite: BMGT 362. This is an advanced course in derivative markets. Familiarity with derivative securities as would be found in an undergraduate investments text is assumed. Topics will include futures and forward prices, swaps, binomial option pricing, the Black-Scholes-Merton model, Brownian motion and Itô's Lemma.

BMGT 485 Strategic Management Capstone- Corporations (3)

Prerequisite: BMGT 261, BMGT 271, BMGT 311 and fourth year standing. A capstone course that focuses on the integration of knowledge and application of skills gained in core business management courses. Emphasizes analysis of the business environment and use of strategic processes (strategy formulation, implementation, evaluation and control) to manage corporations and other large-scale organizations.

BMGT 486 Strategic Management Capstone- Start-Ups and Small Business (3)

Prerequisite: BMGT 261, BMGT 271, BMGT 311 and senior standing. A capstone course that focuses on the integration of knowledge and application of skills gained in core business management courses. Emphasizes analysis of the business environment and use of strategic processes (strategy formulation, implementation, evaluation and control) to create new ventures and to manage small businesses.

BMGT 496 Co-Op (Arr)

Prerequisite: third-year standing, instructor's permission, and declared department major with ECON 112, 113, ACCT 241, 242 and BMGT 311 completed. Full-time, off-campus work experience for students meeting competitive selection criteria established by the Co-op organization. The Co-op training program, lasting four to twelve months, must be approved by the department. A list of approved programs is available from the Department Chair. Credit arranged from 1 to 12 semester hours. Pass/No Credit (awarded upon completion of the Co-op program).

BMGT 499 Independent Study (Arr)

Prerequisite: instructor's permission. An independent research experience for senior majors.

Chemistry

CHEM 102 Chemistry Workshop (1)

Reinforces the basic concepts and problem solving skills needed to succeed in chemistry, focusing on skills in dimensional analysis and valency. CHEM 102 is required as a pre- or co-requisite for CHEM-111 for those students with an ACT Math score of 23 or below and is strongly recommended for those students with an ACT Math score between 24 and 27.

CHEM 107 Introduction to Environmental Chemistry (3)

Designed for students who may not have a background in chemistry but have an interest in the environmental impacts of chemistry. This basic chemistry knowledge will then be applied to chemical process in the atmosphere, lithosphere and hydrosphere. The course will conclude with a study of the biosphere. Students may not receive credit for CHEM 107 and either CHEM 108 or CHEM 111. (NS, GS)

CHEM 111 General Chemistry with Lab (4)

Prerequisite: High school or college algebra; pre- or co-requisite: CHEM 102 for students with an ACT Math score of 23 or below. Introduces the principles of chemistry for understanding chemical problems and for advanced work in the department. Develops college-level problem solving, analytical thinking, writing and reading skills. One three-hour lab per week. (NS, EXP)

CHEM 221 Inorganic Chemistry with Lab (4)

Prerequisite: CHEM 111. An introduction to inorganic chemistry including descriptive chemistry, chemical bonding, solubilities and coordination chemistry. One three-hour lab per week.

CHEM 231 Organic Chemistry I with Lab (4)

Prerequisite: CHEM 111. Initiates the study of carbon chemistry by examining the structure and reactivity of organic functional groups with an emphasis on reaction mechanisms. One 3-hour lab per week. The laboratory will focus on basic techniques used in preparative organic chemistry.

CHEM 241 Analytical Chemistry with Lab (4)

Prerequisite: CHEM 111. An introduction to analytical chemistry, including chemical and physical methods. Two lectures and two laboratories per week.

CHEM 285 Introduction to Chemistry Research (1)

In this course, the student will conduct collaborative research with a faculty mentor from the chemistry department. Students may participate in ongoing faculty research or help collaboratively design their own research topic. Three hours of lab time a week is expected. Students will present their work to the public at the end of each term. Repeatable for credit.

CHEM 331 Organic Chemistry II with Lab (4)

Prerequisite: CHEM 231. Continues the examination of the theoretical aspects of carbon chemistry. Synthesis and structure determination by spectroscopy are also introduced. The laboratory continues to teach the basic techniques of preparative organic chemistry. In addition, more sophisticated analysis and synthesis are incorporated. One three-hour lab per week.

CHEM 351 Biochemistry with Lab (4)

Prerequisite: BIOL 131 and CHEM 331. Introduces the chemistry and metabolic processes of living organisms. One three-hour lab per week.

CHEM 361 Physical Chemistry I (3)

Prerequisite: CHEM 241 and MATH 132. An introduction to thermodynamics in a chemistry context. Examines matter in various states. CHEM 361, CHEM 461 and CHEM 363 can be taken in any order.

CHEM 363 Chemical Kinetics with Lab (1)

Prerequisite: CHEM 241 and MATH 132. An introduction to chemical kinetics concepts, including transport phenomena, mechanisms, reaction rates, and transition state theory. Course will include both lecture and laboratory work.

CHEM 372 Environmental Chemistry with Lab (3)

Prerequisite: CHEM 241 (CHEM 231 is recommended). An advanced chemistry course focusing on the chemical processes operating in the Earth's atmosphere, hydrosphere, and lithosphere. Labs will focus sampling and analysis methods used in detecting various chemicals in the environment. Includes one three-hour lab per week. (GS)

CHEM 421 Advanced Inorganic Chemistry with Lab (3)

Prerequisite: CHEM 221 and 231. An advanced chemistry course focused on understanding inorganic chemistry of the elements including chemical bonding, synthesis, oxidation and reduction, bioinorganic and organometallic chemistry. A portion of the course will provide training in writing about inorganic chemistry. Lab reports, news releases and a final paper will be written, making this a writing intensive course. One three hour lab per week with 4 lab periods devoted to intensive writing instruction. (WRT)

CHEM 431 Advanced Organic Chemistry with Lab (4)

Prerequisite: CHEM 331. Concepts in physical organic chemistry that can include mechanisms, molecular orbital theory, thermodynamics and kinetics. Some aspects of chemical synthesis will also be covered. Includes one three hour lab per week. Usually offered in alternate years. (WRT)

CHEM 442 Instrumental Analysis with Lab (4)

Prerequisite: CHEM 241. An introduction to methods associated with and experience with major types of analytical instrumentation. Includes spectroscopy, chromatography and electrochemistry. Also covers sampling and sample preparation, signal modification and signal to noise ratios. Two lectures and two laboratories per week. Usually offered in alternate years.

CHEM 451 Advanced Topics in Biochemistry (3)

Prerequisite: CHEM 351 Biochemistry. Building from the foundational concepts covered in Biochemistry, this course covers one or more advanced topics in Biochemistry. Example topics include Biophysical chemistry, bioinorganic chemistry, Pharmaceutical biochemistry, and Medicinal chemistry. May be repeated once for credit when the topic changes.

CHEM 461 Physical Chemistry II (3)

Prerequisite: CHEM 241 and MATH 132. An introduction to quantum chemistry, chemical spectroscopy, and atomic and molecular structure.

CHEM 463 Advanced Physical Chemistry (3)

Prerequisite: CHEM 461. Advanced topics in physical chemistry based on instructor interest and students' needs. Not offered regularly.

CHEM 485 Research Investigations in Chemistry (2)

In this course, the student will conduct collaborative research with a faculty mentor from the chemistry department. Students may participate in ongoing faculty research or help collaboratively design their own research topic. Six hours of lab time a week is expected. Students will present their work to the public at the end of each term. Repeatable for credit.

CHEM 199, 299, 399 Independent Study in Chemistry (Arr)

Prerequisite: instructor's permission. Designed for the student who has demonstrated unusual ability in the area of chemistry. The studies will be in the current research areas of the members of the chemistry staff.

CHEM 397/497 Internship (Arr)

Prerequisite: departmental approval and instructor's permission. An applied experience in the major, requiring a minimum number of hours of work per credit hour. Includes conferences with the on-campus instructor and an evaluation by the job supervisor. Pass/No Credit basis.

CHEM 498 Research (Arr)

Prerequisite: CHEM 461 or instructor's permission. Intensive introduction to research. Research will be conducted in close collaboration with a member of the staff and will reflect his or her current research interests.

CHEM 498 Senior Thesis in Chemistry (2)

Prerequisite: Prior participation in a significant research experience. Students in this course will complete their senior thesis to meet the requirements for a Bachelor of Science Degree in Chemistry or Biochemistry. Prior research in the chemistry/ biochemistry field will be needed but can include work at Central College with a faculty member or through another approved research program such as REU at another accredited institution.

Civitas

CIV 110 First Year Seminar

This course will emphasize becoming an engaged, reflective, and responsible citizen of our campus community. The course will introduce first-year students to the liberal arts and to the Core's theme of Engaged Citizenship and serves as the foundation for Civitas II and other Core courses. Students will develop skills in open-inquiry, respectful dialogue, and critical reading, as well as written and oral communication.

Approved Civitas courses include:

- Be the Change You Wish to See (4)
- But Not a Drop to Drink (4)
- Chemical Soup (4)
- Eidos & Koinonia (4)
- Exploring Ethics in Science (4)
- Ford vs Ferrari: Citizen Leadership Through Rivalry (4)
- Gaming to Connect (4)
- Have Passport, Will Travel (4)
- Infectious Diseases that Changed the World (4)
- Music: Rhythm + Drumming= Engaged Citizenship (4)
- Music as a Catalyst for Change, Healing, and Growth (4)
- Star Wars, Stoicism, and Citizenship (4)
- The Maddeningly Complicated World of Healthcare (4)
- Us and Our Environs (4)

CIV 210 Second Year Seminar

The course will focus on a problem or question related to creating a more just society. The problem or question can apply at the national or international levels, but it could also have some connection to work we can do in our local communities. Some form of community engagement is an expectation. The course will serve as a common sophomore experience and will reinforce the student learning outcomes and written and oral skills introduced in Civitas 110.

Communication Studies

COMM 160 Communication in Everyday Life (3)

Introduces students to basic skills necessary for communicating effectively across a variety of social and professional contexts. Emphasis is placed on the development of an analytical and critical approach to planning, implementing and assessing effectiveness when communicating with others. Oral communication competencies include listening, large and small group discussion, and formal presentations. (SB, EXP)

COMM 180 Introduction to Communication Theory (3)

Surveys and analyzes significant theories of the Communication Studies discipline. Topics include the self and messages, relationship development, groups and organizations, public communication, the media, and culture and diversity. Critical thinking and writing skills are cultivated through brief theory application papers. Theories are also explored through in-class exercises.

COMM 240 Multimedia Writing Strategies (3)

This course provides instruction and practice for developing the professional-level writing skills required of strategic communication experts. Students will gain confidence in writing strategic message planners, creative briefs, news releases, and social media posts. In addition, students will implement podcast shows, radio/ TV ads, campaign fundraisers, and various print materials. Composing messages for the appropriate audience, identifying strategies for PR campaigns, and interacting on social media are emphasized.

COMM 250 Evaluating Contemporary Media (4)

Prerequisite: Second-year standing or instructor's permission. Investigates how contemporary screen media construct, reflect, and naturalize identities in the U.S. and other national contexts. In addition, the course introduces students to the contexts of production, text, and audiences, and invites them to actively respond to the identities constructed through screen media. (GPC)

COMM 262 Interpersonal Communication (4)

Prerequisite: second-year standing or instructor's permission. Examines one-to-one communication encounters including friendships, intimates, family and work relationships. Applies theoretical concepts related to human perception, language, nonverbal communication, conflict resolution, listening and gender dynamics. (SB)

COMM 265 Performance Studies (4)

Studies aesthetic communication through a performative context including both individual and group performance methods. Emphasizes the creative process used to communicate a textual interpretation through a carefully prepared performance. Examples of aesthetic texts include fiction, digital media, personal narrative, poetry, and oral history. (ART)

COMM 268 Intercultural Communication (3)

Prerequisite: second-year standing or instructor's permission. Explores communication within and across cultural groups. Addresses cultural differences broadly, including not only ethnicity, but also race, age, sexual orientation, gender, and disability. Presents and applies key concepts, skills, and processes of intercultural communication. Provides a forum not only to talk about diversity, but also to interact across difference and develop a better understanding of one's own culture. (GPC)

COMM 270 Public Speaking (4)

Examines principles of effective public discourse while providing the opportunity to improve research skills, develop analytical abilities, increase confidence when giving oral presentations, and acquire proficiency in the use of computer graphics software. Emphasizes the discovery, organization, delivery and evaluation of information communicated within a public context. Includes both informative and persuasive speeches.

COMM 272 Oral Communication in Professional Contexts (3)

The course examines oral communication in a variety of professional contexts. Solid understanding and communication skills are developed in relation to job interviews, resume writing, social media personal branding, business presentations, team meetings, performance appraisals, and sales/ elevator pitches. Professional etiquette, workplace technology, interpersonal/ group interactions, persuasive speaking, workplace ethics, and work-life balance are also discussed.

COMM 275 Communication and Sport (4)

Prerequisite: second-year standing. Investigates the communication practices by which individuals, groups, and organizations frame their experiences in/through sport. It operates from the assumption that people enact, produce, consume, and organize sport primarily as a communication activity. The class is structured from a survey perspective where the relationship between communication and sport is examined in interpersonal, social, family, mediated, and organizational contexts. Analysis papers, independent research, oral presentations, and class discussion/activities will be emphasized.

COMM 276 Communicating Health & Illness (3)

Prerequisite: second-year standing. Provides a broad introduction to communication about health and illness, addressing multiple health care contexts. Explores how health and illness are socially constructed through interaction and how they affect and are affected by our communication. Topics include health/illness identity and social support, provider-client interaction, communication in health care organizations, and public health, including issues related to media, healthcare policy, and health promotion. The course is both theoretical and practical. While students will be introduced to the theoretical underpinnings of healthcare interactions, they will also gain practical information that they can use in their own experiences as health care citizens and professionals.

COMM 280 Communication Research and Writing (4)

Prerequisite: COMM 180 and second-year standing or instructor's permission. Introduces basic primary and secondary research methods used in the study of human symbolic activity. Provides working knowledge of resources and research methods used in the communication discipline while refining research and academic writing skills. Primary methods emphasized include survey, ethnography, interviewing, and textual analysis. Includes significant writing component. Designed for students planning to be Communication Studies majors. (WRT)

COMM 330 Media Criticism (3)

Prerequisite: third-year standing or instructor's permission. Students will examine the production, textual meaning, and reception contexts of media culture by focusing on the gains of historical and contemporary approaches to media studies and their theoretical limitations. Each unit will incorporate case studies that examine the influence of media, and students will be tested on each unit along with the opportunity to implement each theoretical approach. Finally, students will select a theoretical perspective to apply to their media object of choice in a critical analysis paper.

COMM 340 Public Relations (4)

Prerequisite: third-year standing or instructor's permission. Focuses on the fundamental communication processes involved in public relations. Basic theories of identity formation, persuasion and social influence are examined. Applied areas of emphasis include planning and implementing campaigns, as well as public relations writing, crisis response and information management. This course includes a service learning component.

COMM 342 Negotiating Organizational Cultures (4)

Prerequisite: third-year standing or instructor's permission. Examines the role of communication in workplace and other organizational cultures. Presents and applies theories of organizational communication through readings, case studies, and an original primary research project. Develops analytical, problem-solving, professional, and personal effectiveness through exploration of topics such as organizational systems and cultures, power and difference in organizations, and teamwork and leadership.

COMM 380 Communication Ethics (4)

Prerequisites: third-year standing or instructor's permission. Investigates the complex nature of ethical issues imbedded in our everyday communication. Analyzes the principles and perspectives underlying ethical judgments, and examines the communication strategies used to relate these judgments to others. A variety of communication contexts are explored, including interpersonal, organizational, mediated, and political. Emphasis is placed on guided class discussion, with written analysis papers, case study research, and oral presentations comprising the main assignments.

COMM 385 Digital Media Discourses (4)

Prerequisite: third-year standing or instructor's permission. Examines dystopian and utopian discourses about how digital media influence human communication with a focus on personal, interpersonal, social, educational, professional and virtual contexts. In addition to reading scholarly articles, students will consider how their media interactions fashion communication and relationships. This class is designed to engage students through daily readings and discussion, evaluated reviews of material and concepts, and primary and secondary research examining an issue in digital media.

COMM 397 Internship in Communication Studies (Arr)

Prerequisite: declared major or minor in Communication Studies; departmental GPA of 2.0 or higher; and departmental approval. An applied professional experience in communication-related fields. Includes midterm and final evaluations by site supervisor; written reflection during the experience; conferences with supervising faculty member; and submission of an acceptable internship analysis paper. May be repeated for a maximum of 8 credit hours applied to the major or 3 credit hours applied to the minor. Pass/No Credit basis.

Computer Science

COSC 109 Introduction to Information Management (3)

An introduction to fundamental principles, concepts and techniques that providers of information use to organize their data. Also studies techniques for using information effectively in decision making. Basic networking, web, database, spreadsheet and programming concepts will be covered. Does not count toward the Computer Science major or minor requirements.

COSC 110 Introduction to Computer Science (3)

Prerequisite: Minimum ACT composite score of 23 or COSC 109 recommended. Introduction to the fundamental ideas and techniques of computer science. Introductory programming topics such as variables, sequence, selection, repetition, and objects will be covered. Students will spend a significant amount of time out of class writing and debugging code in a programming language. (MR, EXP)

COSC 130 Data Structures (3)

Prerequisite: COSC 110. Studies the implementation of common data structures such as stacks, queues, linked lists, and trees. Intermediate programming topics such as recursion, analysis of algorithms, and other topics will be introduced. Students will spend a significant amount of time out of class designing, writing, collaborating on, and debugging classes and programs.

COSC 210 Database and the Web (4)

Prerequisite COSC 110. Introduction to the client-server paradigm using web clients and database servers. The interaction of the web client languages HTML, CSS, and Javascript with server languages such as PHP and SQL will be explored.

COSC 220 Software Design (4)

Prerequisite: COSC 130. Introduces current design methodologies for developing computer programs. Object-oriented programming concepts will be covered. Designing classes and interaction between objects will be emphasized. In addition, API's for common data structures will be included. Students will spend a significant amount of time out of class designing, writing, collaborating on, and debugging classes and programs in an object-oriented programming language.

COSC 235 Discrete Structures (3)

Prerequisite or corequisite: COSC 130. An introduction to the mathematical ideas commonly used in computer science, such as logic, proof, sets, counting, discrete probability, relations, functions, graphs, and automata. (MR)

COSC 245 Computer Organization and Architecture (4)

Prerequisite: COSC 130. A study of the internal organization and design of computing devices. The machine will be examined at different levels such as digital logic, microprogramming, conventional machine and assembly language. Advanced architectures such as RISC and parallel machines will be explored.

COSC 255 Programming: "Language" (2)

Prerequisite: COSC 130. A study of a selected programming language not covered in other computer science courses. This course may be repeated with a different language.

COSC 325 Mobile Application Development (4)

Prerequisite: COSC 220. Studies the principles of software development for mobile platforms.

COSC 330 Algorithms (3)

Prerequisite: COSC 130 and COSC 235. A survey of algorithm analysis and design, with an introduction to advanced algorithms. Topics may include sorting and searching, strings, graphs, and dynamic programming.

COSC 345 Computer Systems (4)

Prerequisite: COSC 130, COSC 245 recommended. Studies fundamental system concepts such as memory management, input/output, process and thread management, concurrency, and networking.

COSC 346 Cybersecurity (4)

Prerequisite: COSC 130. Overviews computer security in software systems and the Internet. The course will evaluate risks to computer and network systems, examine and design security systems against attacks, and apply security principles to solve real-world problems. A "learning by doing" approach using self-contained labs will be used to demonstrate security flaws and their remedies.

COSC 362 Computer Graphics (4)

Prerequisite: COSC 220. Introduction to the principles and techniques of computer graphics. This course begins with a bottom-up approach, in which you write C++ code from scratch to create 3D images in two fundamentally different ways. This provides a strong foundation for learning OpenGL, the industry-standard graphics API.

COSC 390/490 Topics: Computer Science (Arr)

Prerequisite: COSC 220. Various topics in computer science can be studied depending upon the interest of the students. Some possible areas of study are advanced programming techniques and systems analysis.

COSC 420 Senior Project (4)

Prerequisite: COSC 220. Students will learn current development practices and apply them to design and implement a semester project of their choice. Students are expected to present (orally and in writing) the results of their work.

Data Science

DATA 210 Introduction to Data Science (3)

Prerequisite: COSC-110. An introduction to concepts, tools, and techniques in data science including data acquisition, cleaning, analysis, modeling, and visualization. No prior familiarity with data science is assumed.

DATA 310 Data Visualization (3)

Prerequisite: Second-year standing. Studies principles of effective visualization based on insights from many disciplines, including cartography, psychology, cognitive science, and graphic design. Students will learn to analyze visualizations based on these principles and apply the principles to create effective visualizations of their own.

DATA 440 Applied Machine Learning (3)

Prerequisites: MATH-131, COSC-110. The course focuses on the regression, classification, and clustering tasks with the scikit-learn machine learning library in Python. The basic data structures used in machine learning such as numpy arrays and pandas data frames will be introduced in the beginning of the course. Students will spend a significant amount of time out of class designing, writing, collaborating on, and debugging Python programs.

Economics

ECON 112 Principles of Microeconomics (3)

Introduces the major concepts and applications of microeconomic theory. Examines the economic decision making of individuals and firms and explores market mechanisms within the context of scarce resources. Explores economic rationales for government intervention in the market. (SB)

ECON 113 Principles of Macroeconomics (3)

This course explores the function of the national economy. By discussing unemployment, inflation, economic growth and a variety of measures of economic output, students in the course will begin to understand how economic behavior affects nations in the aggregate. Special attention is placed to the function of both fiscal and monetary policy. (SB)

ECON 312 Microeconomic Theory (4)

Prerequisites: ECON 112, ECON 113 and MATH 131. Studies the theoretical foundations of economics; examines the behavior of individuals, firms and markets. Includes indifference analysis, production theory, factor markets and general equilibrium theory.

ECON 313 Macroeconomic Theory (4)

Prerequisites: ECON 381 and MATH 131. Discusses aggregate measures of economic activity; presents and contrasts the theoretical approaches to the macroeconomy; examines policy issues related to inflation, unemployment and economic growth.

ECON 321 Environmental Economics (3)

Prerequisite: ECON 112. Economic analysis of natural resources and environmental goods. Topics include optimal consumption of depletable resources, analysis of environmental policy, theory of common property resources, public goods, and external costs and benefits, as they apply to environmental resources. (GS)

ECON 322 International Trade and Finance (3)

Prerequisite: ECON 113. This course seeks to expose students to both the theoretical and application aspects of international trade and finance. Students learn why countries trade with each other, the benefits associated with trade and the role politics play in hindering free trade, migration and capital flows. Students also learn how cultural ties, geographic proximity, domestic tastes and preferences affect international trade in goods and services. The second half of the course covers topics such as the balance of payments, exchange rates, Monetary Unions and financial globalization. (GPN)

ECON 324 Monetary Theory and the Financial System (3)

Prerequisite: ECON 113. Examines the theoretical debate over the role of money in the economy and the ability of the central bank to affect economic activity. Reviews the commercial banking system and other financial markets. Offered alternate years.

ECON 329 Economic Development (3)

Economic development is a subset of economics concerned with not just economic growth but a concurrent change in the standard of living for masses of people living in lesser developed countries. This involves changes in economic, social, political and institutional mechanisms. This course also considers intergenerational equity and development so future generations are not left worse off in the drive for current economic development. (GS)

ECON 381 Research Methods in Economics (4)

Prerequisites: ECON 112, ECON 113, MATH 215 or instructor's permission. An in-depth analysis of the role of inferential statistics in economics. Emphasizes model construction and applications of probability to univariate and multivariate hypothesis testing, confidence intervals, and simple multiple regression, among other topics.

ECON 382 Economic Forecasting (3)

Prerequisite: ECON 381 or instructor's permission. This course provides a basic understanding of economic forecasting and its associated terminology. Concepts in modeling time-series data such as seasonality, trends and cycles, auto regressive and moving averages models are discussed. Students are introduced to practical data analysis application using the software R.

ECON 390 Topics (Arr)

Prerequisite: instructor's permission. Selected topics in economics may be offered, depending upon student and staff interest.

ECON 397 Internship (Arr)

Prerequisite: third-year standing. Available only to students who have declared a major in the department. The seminar attempts to sensitize the student to work experience and provide communication with other students to discuss their mutual experience. May be repeated for a maximum of 9 credits total. Does not count toward the economics major. Pass/No Credit basis.

ECON 485 Economics Research Seminar (3)

Prerequisite: ECON 381, ECON 312, ECON 313 and senior standing. Requires students to conduct a research project grounded in economic theory and utilizing statistical methodologies. Typically the research project is a continuation and extension of a project begun in ECON 381 or another upper-level course. There is an emphasis on close collaboration between student and department faculty. (WRT)

ECON 499 Independent Study (Arr)

Prerequisite: instructor's permission. An independent research experience for senior majors.

Education

EDUC 110 Foundations of Education (3)

Focuses on the development of schools in American society, and issues related to philosophy, curricula, governance, finance, law, ethics, professionalism and teaching as a career. Emphasizes active student learning and development of college level literacy and research skills.. This course is required for admission to the teacher education program.

EDUC 135 Children with Exceptionalities (3)

This general survey course presents an overview of children and adolescents with exceptionalities. The special education process, characteristics of exceptionalities, and treatment options will be examined related to children experiencing learning disabilities, emotional behavior disorders, attention deficit hyperactivity disorder, autism spectrum disorders, physical and other health impairments. This course is required for admission to the teacher education program. (SB, EXP)

EDUC 181 Developmental Psychology (3)

Focus is on basic theories and concepts related to physical, cognitive, and psychosocial development. While specific emphasis will be placed on children and adolescents, a lifespan perspective will be utilized including discussion and content from pre-natal development through issues associated with death and dying. This course is required for admission to the teacher education program. (SB)

EDUC 183 Pre-Admission Workshop (1)

Corequisite: Enrolled in EDUC 110, EDUC 135 or EDUC 181 or instructor approval. This workshop is required for admission to the teacher education program at Central College. Students will complete pre-entry observation hours, review the handbook requirements for the teacher education program and conclude the course by completing their application to the program. Pass/ no credit.

EDUC 210 Methods of Teaching Physical Education, Visual Arts, and Performing Arts in the Elementary Classroom (3)

Prerequisite: admission to the teacher education program. Provides elementary teachers with the opportunity to explore creative expression, integrating the teaching of physical education, health, and wellness as well as the visual and performing arts into the elementary curriculum. Students will be required to examine and apply National Standards for physical education, music education and the visual arts to teaching methods. The theoretical, philosophical, developmental, social, and cultural foundations that support arts integration and cross-curricular applications will be examined.

EDUC 215 Human Relations (3)

Prerequisite: admission to the teacher education program. Examines issues in education related to culture, gender, ethnicity, sexual orientation, socio-economic status and linguistic diversity. Intended to increase knowledge of and sensitivity to the diverse groups that make up the student population in schools today. A semester-long (15 hour) service learning experience provides opportunities to relate knowledgeably, respectfully, and sensitively to students from ethnically-diverse backgrounds. (GPC, WRT)

EDUC 220 Language Development and Learning (4)

Prerequisite: admission to the teacher education program. Focuses on understanding the development of language in the child from birth to age 12. A variety of language modes, including writing, speaking, reading, listening, and non-verbal are considered. Students will also be able to recognize and observe differences between spoken and written language. Particular emphasis is placed on developing communicative competence in school settings. Field experience includes 7 hours of observation in a variety of settings.

EDUC 231 Teaching English Language Learners (3)

Prerequisite: admission to the teacher education program. The course is designed to support preservice teachers in designing and delivering effective instruction to English Language Learners (ELLs). Students will be introduced to models and pedagogy regarding teaching ELLs. Students will focus on differentiation and how to develop and implement effective lessons that meet the individualized needs of ELLs in the classroom. Students will gain insights into how these principles are put into action by working with English Language Learners in placements provided by the Center for Community-Based Learning. Field experiences include 15 hours of service learning. The understanding of methods and approaches to teaching ESL/EFL will be addressed throughout the course.

EDUC 237 Teaching Language Arts and Reading (3)

Prerequisite: admission to the teacher education program. Co-requisite: EDUC 240. A process approach for developing teaching methods that integrate listening, speaking, writing and reading throughout the curriculum. Emphasis will be placed on the interactive nature of language arts and reading. Field experience of 15 hours is required.

EDUC 239 Psychology in Elementary Education (3)

Prerequisite: admission to the teacher education program. Co-requisite: EDUC 237. Examines the fundamental concepts of learning, motivation and behavior in relation to educational practices. The student will also examine the tools and techniques of test construction, measurement and evaluation by the teacher.

EDUC 240 Teaching, Learning and Assessment (3)

Prerequisite: admission to the teacher education program. Co-requisites: Either EDUC 237 for elementary education or EDUC 342 and EDUC 374 for secondary and K-12 education. Examines the fundamental concepts of learning, motivation and behavior in relation to educational practices. The student will also examine the tools and techniques of test construction, measurement and evaluation by the teacher. Practicum experience of 20 hours is included for Secondary Education students.

EDUC 253 Engineering for Teachers (3)

Prerequisite: admission to the teacher education program. This course will introduce students to the engineering design process, where they will apply math, science, and engineering standards in hands-on projects. They will work individually and in collaborative teams to design solutions to a variety of problems using 3D modeling software and an engineering notebook to document their work. Students will also work with programming logic and problem-solving models in a technological design focused unit.

EDUC 262 Collaboration Strategies (3)

Prerequisite: admission to the teacher education program. Strategies for creating and maintaining communication and collaborative relationships with parents, regular classroom teachers, paraprofessionals, support personnel, and others including community resources, involved in meeting the needs of students with disabilities and their families. Skills needed to facilitate differing family systems, dynamics, and cultural expectations will be built on an appreciation of family and community difference. The collaborative and consultative roles of teachers in maximizing the student's integration in the general curriculum, classroom, and school will be included.

EDUC 275 Health, Safety & Nutrition (3)

Prerequisite: admission to the teacher education program. Required for the ECE/ Inclusive Endorsement #1001. The course focuses on evidence-based concepts in the fields of health, safety and nutrition and their relationship to the growth and development of the young child from birth to through third grade. Participants will learn to recognize signs of emotional distress, physical and mental abuse and neglect in young children. Additionally, participants will study learning environments and classroom procedures to promote positive social interaction, conflict resolution and self-regulation in children birth through third grade.

EDUC 311 Methods of Health and Physical Education in the Elementary School (2)

Prerequisites: admission to the teacher education program. Provides students with a variety of theoretical, philosophical, and practical principles that are necessary for the development of a sound, professionally grounded, and research-based curriculum for children in grades K-8. The theoretical principles will drive the design, development, and implementation of lessons plans for elementary physical education and health. Students will participate in a 20 hour clinical experiences in K-8 classrooms. Students will write and implement lessons plans and units, critique methods, and conduct self and peer evaluations of their teaching.

EDUC 312 Methods of Teaching Art in the Elementary School (2)

Prerequisites: admission to the teacher education program. Explores the history and philosophies of art education and the developmental levels of art making. Provides methods for teaching art that challenges children to use higher order thinking skills. Lessons will be prepared and presented to elementary art students. Students will participate in a 20 hour clinical experience in K-8 classrooms. Students will create and teach lessons and conduct self and peer evaluations of their teaching.

EDUC 313 Methods of Teaching Music in the Elementary School (3)

Prerequisite: admission to teacher education program. Provides students with a variety of theoretical and practical principles that are necessary for the development of the general music curriculum for K-8th grade students. The emphasis is on the presentation of musical concepts through a variety of approaches with special regard for aspects of child development. Students will participate in a 20 hour clinical experience in K-8 classrooms. Students will write lesson plans, use appropriate teaching techniques, apply theoretical principles in the practical setting, and conduct self and peer evaluations of their teaching methods.

EDUC 314 Methods of Teaching Health and Physical Education in the Secondary School (2)

Prerequisites: admission to the teacher education program. Provides students who intend to teach health and PE in grades 5-12 with a variety of theoretical, philosophical, and practical principles that are necessary for the development of a sound, professionally grounded, and research-based curricula and programs. Information covered includes general and specific teaching methods, justifying and designing a physical education program, developing a total program and implementing instructional activities. Students will participate in 20 hours of clinical experience in area schools in grades 5-12. Students write and implement lessons plans and units, critique methods, and conduct self and peer evaluations of their teaching.

EDUC 315 Methods of Teaching Art in the Secondary Schools (2)

Prerequisites: admission to the teacher education program. Methods and strategies for teaching art to secondary students and will include readings and handouts from professional organizations about the field of art education. Students will participate in class discussions about the readings. Students will take away from this class several ways to engage students in visual thinking and strategies to carry out that task with age appropriate materials. Responses may be required in verbal and/or written form. A total of 20 hours of clinical experiences will be completed in the secondary art classroom, including classroom observations of secondary art students followed by experiences where students will prepare and teach lessons to secondary art classes and will conduct self and peer evaluations of their teaching.

EDUC 316 Teaching Choral and Instrumental Music in Secondary Schools (2)

Prerequisite: admission to the teacher education program. Provides students with the skills, techniques, and resources needed to teach choral and instrumental music in grades 5-12. Students will consider various perspectives of music philosophy and learn how these views affect teaching methods. Students will learn pedagogical approaches and techniques for individual lessons and small ensemble and large ensemble rehearsal settings. Students will prepare for both the administrative responsibilities and musical responsibilities for directing a secondary school music program. Students will participate in 20 hours of clinical experience in area schools in grades 5-12. Students will write and implement lessons plans and units, critique methods, and conduct self and peer evaluations of their teaching and rehearsal methods.

EDUC 320 Middle School Methods and Curriculum (3)

Prerequisite: admission to the teacher education program. This course is designed to assist future middle school teachers to become better informed about teaching at the middle school level. Identifies important characteristics of a quality middle school, and the curricular development in middle level education. Students will prepare interdisciplinary instructional materials. A field experience of 15 hours in middle school sites is required.

EDUC 322 Early Adolescent Development (3)

Prerequisite: admission to the teacher education program. This course focuses on the developmental, social, cognitive, and personal issues that confront adolescents as they emerge from childhood and strive for adulthood. Students will examine the physical and social adjustment of the adolescent child and the relationship of the school environment to the child's development. Lecture, class discussions, group activities, experiential exercises, videos and homework assignments will be used to meet instructional goals. Five hours of clinical experiences are embedded into this course and fulfill state of Iowa licensure requirements.

EDUC 331 Curriculum and Methods for Students with Mild/Moderate Disabilities-Elementary (3)

Pre-requisite: admission to the teacher education program. Co-requisite EDUC 360. Fuses the characteristics of students with diverse learning needs with the demands of education. This methods and strategies course covers multiple approaches for providing curricular and instructional methodologies to educate students with mild disabilities. Ethical considerations are given to contemporary alternatives for meeting the individual needs of students who differ in degree and nature of disability in order to maximize participation and progress in the general education curriculum. Features of effective teaching and features of high-quality educational tools, including the use of assistive technology, provide a structure for exploring curriculum and approaches which maximize a student's potential to learn. Course covers sources of services, organizations, and networks for individuals with mild and moderate disabilities, including career, vocational and transitional support to post-school settings with maximum opportunities for decision making and full participation in the community. A minimum of 30 hours of unique field experience targeting programs that enhance a student's social participation in family, school, and community activities is expected and specific to the elementary endorsement.

EDUC 332 Curriculum and Methods for Students with Mild/Moderate Disabilities-Secondary (3)

Pre-requisite: admission to the teacher education program. Co-requisite: EDUC 360. Fuses the characteristics of students with diverse learning needs with the demands of education. This methods and strategies course covers multiple approaches for providing curricular and instructional methodologies to educate students with mild disabilities. Ethical considerations are given to contemporary alternatives for meeting the individual needs of students who differ in degree and nature of disability in order to maximize participation and progress in the general education curriculum. Features of effective teaching and features of high-quality educational tools, including the use of assistive technology, provide a structure for exploring curriculum and approaches which maximize a student's potential to learn. Course covers sources of services, organizations, and networks for individuals with mild and moderate disabilities, including career, vocational and transitional support to post-school settings with maximum opportunities for decision making and full participation in the community. A minimum of 30 hours of unique field experience targeting programs that enhance a student's social participation in family, school, and community activities is expected and specific to the elementary endorsement.

EDUC 333 Science and Technology Curriculum and Methods (3)

Prerequisites: EDU 352, EDUC 354, EDUC 374 and admission to the teacher education program. Co-requisite of EDUC 334. This course introduces students to a wide variety of teaching methods in elementary science. Students will be exposed to sound educational philosophy, research, best practices and experiences, which can be implemented in the science classroom. A variety of student-centered instructional approaches with an emphasis on inquiry and student engagement will be presented. Meaningful integration of technology will also be stressed. This course includes a 12-hour practicum experience in an elementary classroom. Designed for students seeking K-6 licensure.

EDUC 334 Social Studies Curriculum and Methods (3)

Prerequisites: EDUC 352, EDUC 354, EDUC 374. Co-requisite: EDUC 333. This course is designed to equip prospective elementary teachers to understand, plan, and teach social studies at the K-6 level. The course will focus on unpacking and prioritizing social studies content, identifying and implementing appropriate instructional strategies, and planning assessment that measures students' progress toward standards-based learning targets. The course focuses on evidence-based practices and sound pedagogical philosophy and practice. Throughout the course, students will be asked to wrestle with the problems, trends, threats, and most notably, the importance of social studies education and its connections in helping teachers meet the standards of the Common Core State Standards. This course includes a 12-hour Practicum Experience in an elementary classroom. This is designed for students seeking k-6 licensure.

EDUC 340 Learning and Assessment in Secondary Education (3)

Prerequisites: admission to the teacher education program. Co-requisites: EDUC 342 and EDUC 375. Examines the fundamental concepts of learning, motivation and behavior modification in relation to education practices. The student will also examine the tools and techniques of test construction, measurement and evaluation by the teacher. Practicum experience of 20 hours is included.

EDUC 342 Reading in the Content Area--Secondary (1)

Prerequisite: admission to the teacher education program. Co-requisites: EDUC 340 and EDUC 375. Reading in the secondary classroom differs significantly from reading instruction in the elementary school. It is generally assumed that the basic skills of learning how to read are acquired in the elementary grades. It cannot be assumed, however, that students at the secondary level will automatically make the transition from reading elementary texts to successful completion of the complex demands of reading and learning in the content area. It is the purpose of this course to help secondary level teacher-in-training acquire knowledge of skills and strategies that will help enable all of their students to be more successful at learning in the content areas.

EDUC 344 IEPs, Assessment, and Evaluation (3)

Prerequisite: admission to the teacher education program. Teaches the legal provisions, regulations and guidelines regarding unbiased assessment and use of psychometric instruments and instructional assessment measures of individuals with disabilities. Students will participate in the application of assessment results to individualized program development and management, and the relationship between assessment and placement decisions. Additionally, students will gain knowledge of any specialized strategies such as functional behavioral assessment and any specialized terminology used in the assessment for various disabling conditions.

EDUC 352 Teaching of Reading (3)

Prerequisites: EUDC 237, EDUC 239 and admission to the teacher education program. Co-requisites: EDUC 354 and EDUC 374. A study of elementary school reading instruction that is defined as integrating theories of learning, language, and literacy. Methods and material for a comprehensive reading program, techniques of assessment and recent research are examined and evaluated. An introductory focus also includes literacy difficulties including, but not limited to, dyslexia. A practicum experience of 10 hours is included.

EDUC 354 Teaching of Mathematics (3)

Prerequisites: EDUC 237, EDUC 239 and admission to the teacher education program. Co-requisites: EDUC 352 and EDUC 374. Presents methods and materials for teaching elementary school mathematics. Conceptually oriented, the course involves actively doing math, emphasizes development of math thinking and reasoning skills, math applications, pedagogy, and a broad range of content. A practicum experience of 10 hours is included.

EDUC 356 STEM Curriculum and Methods (3)

Prerequisite: admission to the teacher education program. Prerequisite or co-requisite: EDUC 352, EDUC 354 EDUC 374. This course will teach students to effectively integrate science, technology, engineering, and mathematics content into their daily instruction. The course will allow students to explore STEM and STEAM curriculum and pedagogy from a variety of best-practice programs. They will design, develop, and facilitate a STEM based learning experience for children ages 3-13 in an academic setting.

EDUC 360 Instructional Strategies I: Behavior Modification (3)

Prerequisite: admission to the teacher education program; Co-requisite: EDUC 331 or EDUC 332. Teaches non-aversive approaches to individual behavioral issues, specially designed instructional techniques addressing academic areas, and the evaluation and instruction in skills which maximize the development of cognitive, academic, social, language, and functional abilities for students are addressed.

EDUC 374 Behavior and Classroom Management (3)

Prerequisites: admission to the teacher education program. Co-requisites: either EDUC 352 and EDUC 354 for elementary majors or EDUC 240 and EDUC 342 for secondary majors. Focuses on strategies in behavior and classroom management including applied behavioral analysis, for working with groups and individuals on academic, behavioral, or social skills. Addresses classroom management strategies appropriate for all children, including those with special educational needs.

EDUC 375 Behavior and Classroom Management-Secondary and K-12 (3)

Prerequisite: admission to the teacher education program. Co-requisites of EDUC 340 and EDUC 342. Focuses on strategies in behavior and classroom management. Addresses classroom management strategies appropriate for all children, including those with special educational needs.

EDUC 383 Field Experience in Special Education (1)

Prerequisite: admission to the teacher education program and instructor's permission. This experience is designed as an introduction to working with children with an individualized education program. The primary focus is on service delivery models and instructional methods unique to those in special education. This 30 hour field experience may be completed up to three times in different settings. Pass/No Credit basis.

EDUC 384 Field Experience in Secondary Education (1)

Prerequisites: EDUC 240, EDUC 342, EDUC 374 and admission to the teacher education program. Co-requisites: EDUC 450 and EDUC 451 for secondary education. Students will explore classroom observation techniques and basic theories of communication, tutoring, and planning. A 30 hour field experience is required and provides a broad application overview of the planning and teaching processes in secondary schools. Designed for students seeking secondary teacher licensure. Pass/No Credit basis.

EDUC 392 ESL Practicum (Arr)

Prerequisite: ENGL 360 and instructor's permission. The ESL practicum is a pre-student teaching experience of observation, teaching and reflection on teaching English as a second language in the public school setting. The course requires 45 contact hours divided between both the primary and secondary levels, as well as group and individual discussion and research.

EDUC 397 Central Teacher Academy Internship (1)

Prerequisite: instructor permission. Participants in the Central Teacher Academy collaborate with a mentor teacher 2-3 hours/week to provide instructional services to students in the Pella community. Participants also engage in a variety of professional development activities sponsored by Central College and their school placements. This course may be repeated up to 5 times.

EDUC 397 Experiential STEM Internship (1)

Prerequisite: admission to the teacher education program. Prerequisite or co-requisite of EDUC 356. This course will include an internship experience involving STEM, with a minimum of 30 contact hours for the internship. Students will experience STEM in an authentic environment through participation of this internship with the goal of being better able to provide an authentic experience for K-8 students as a STEM teacher.

EDUC 397 Internship: Teaching ESL (Arr)

Prerequisite: ENGL 360 and permission of instructor. Students gain experience teaching English to non-native speakers of the language. The supervising instructor must approve internship site and student population. This course is not intended as a practicum for teaching licensure.

EDUC 420 Early Childhood Education I: Curriculum, Assessment & Methods (4)

Prerequisite: admission to the teacher education program. This course is required for the ECE/ Inclusive Endorsement #1001. This course focuses on the development, implementation and assessment of appropriate environments and curricula for young children ages three through eight. Students prepare to utilize developmentally appropriate practices in a context of family and culturally sensitive care. Emphasis is on understanding children's developmental stages and developing appropriate learning opportunities, interactions, and environments in the following areas: dramatic play, art, music, fine and gross motor play. Students will be exposed to early childhood theories, child development, current research and curriculum standards, assessments and outcomes in designing environments. Students will participate in a 30 hour clinical experience.

EDUC 421 Early Childhood Education II: Curriculum, Assessment & Methods (4)

Prerequisite: admission to the teacher education program. This course is required for the ECE/ Inclusive Endorsement #1001. This course focuses on the development, implementation and assessment of appropriate environments and curricula for young children ages three through eight. Students prepare to utilize developmentally appropriate practices in a context of family and culturally sensitive care. Emphasis is on understanding children's developmental stages and developing appropriate learning opportunities, interactions, and environments in the following areas: emergent literacy, math, science, technology, and social studies. Students will be exposed to early childhood theories, child development, current research and curriculum and assessment standards and outcomes in designing environments. Students will participate in a 30 hour clinical experience.

EDUC 425 Transitional/Vocational Collaboration for the Student With Special Education Needs (1)

Prerequisite: admission to the teacher education program. Covers sources of services, organizations, and networks, including career, vocational and transitional support to post-school settings, for individuals with mild and moderate disabilities, to maximize opportunities for decision-making and full participation in the community.

EDUC 430 Early Childhood Education III: Administration, Supervision & Collaboration (4)

Prerequisite: EDUC 420, EDUC 421. This course is required for the ECE/ Inclusive Endorsement #1001. This course focuses on the fundamental aspects and principles involved in setting up and administering an early childhood program. Emphasis will be on licensing regulations, bookkeeping, insurance enrollment, record keeping, verification preparation, training and supervision of employees, facility planning and maintenance and quality programming and improvement strategies. Curricular leadership, selection of materials and equipment, and curricular implementation are also embedded. Students will participate in a 30 hour clinical experience.

EDUC 438 Reading Clinic and Field Experience (6)

Prerequisite: EDUC 352, EDUC 354, EDUC 375 and admission to the teach education program. Provides instruction tailored specifically to meet the needs of the individual child. The course includes the study of methods, materials, and assessment for providing meaningful reading instruction for students at all levels of reading ability, with specific attention to students with reading difficulties, such as, but not limited to, dyslexia. Clinical field experience of 45 hours is required.

EDUC 444 Literacy Strategies for Content Area Reading (3)

Prerequisite: admission to the teacher education program. Examines strategies for integrating literacy in the content areas. A 15-hour middle school practicum experience provides opportunities to embed strategies in the classroom curriculum and instruction to enhance students' abilities to learn content knowledge and disciplinary literacy.

EDUC 450 General Secondary Methods (3)

Prerequisites: Admission to the teacher education program, EDUC 240, EDUC 342 and EDUC 374. Co-requisites: EDUC 384 and EDUC 451 for secondary education. Introduces prospective teachers to the general methods of teaching in the middle and secondary grades. Specific skills are acquired in planning, implementing instructional strategies, providing for individual differences and evaluating student performance, and reflecting upon teaching through a professional learning community.

EDUC 451 Secondary Special Methods (1)

Prerequisites: EDUC 240, EDUC 342, EDUC 374 and admission to the teacher education program. Co-requisites for secondary education: EDUC 384 and EDUC 450 for secondary education. Introduces prospective teachers to the methods and curriculum in the specialized subject areas in the middle and secondary grades. Specific skills are acquired in planning, implementing instructional strategies, providing for individual differences and evaluating student performance.

EDUC 453 Advanced Integration of Technology in Education-Elementary (1)

Prerequisite: approval to student teach. Co- requisites: EDUC 460 or EDUC 462 and EDUC 468 and EDUC 485. Focuses on instructional technology strategies, educational pedagogy, educational philosophy and research, and a wide variety of instructional technologies. Emphasis on learning how to plan, design, and integrate technologies into teaching and learning. The ethical and equitable use of instructional technology is discussed and demonstrated by students. Designed for students seeking K-6 licensure. This class meets online.

EDUC 455 Advanced Integration of Technology in Education-Secondary (1)

Prerequisite: approval to student teach. Co-requisites: EDUC 470 or EDUC 466 and EDUC 476 and EDUC 486. Focuses on instructional technology strategies, educational pedagogy, educational philosophy and research, and a wide variety of instructional technologies. Emphasis on learning how to plan, design, and integrate technologies into teaching and learning. The ethical and equitable use of instructional technology is discussed and demonstrated by students. Designed for students seeking 6-12 licensure. This class meets online

EDUC 458 Special Methods: Teaching Foreign Language in the Elementary School (1)

Prerequisite: approval to student teach and instructor permission. A pre-professional course designed to prepare elementary education majors to teach foreign language in grades K-6. Emphasis is on practice and analysis of performance.

EDUC 460 Elementary Student Teaching (12)

Prerequisite: approval to student teach. Co- requisites: EDUC 453 and EDUC 485. Students will observe, assist and teach in elementary school classrooms for 16 weeks under the guidance of the classroom teacher, the school principal and the college supervisor. Pass/No Credit basis.

EDUC 461 Elementary Intern Teaching (Arr)

Prerequisite: approval to student teach. An experience as a teaching intern with close supervisory assistance from the local school district as well as from the college staff. Pass/No Credit basis.

EDUC 462 Elementary Student Teaching (6)

Prerequisite: approval to student teach. Co- requisites: EDUC 468, EDUC 453 and EDUC 485. Supervised observation and teaching for 8 weeks in regular K-6 classroom. Pass/No Credit basis.

EDUC 464 Elementary Student Teaching in Subject Area (12)

Prerequisite: approval to student teach. Co- requisites: EDUC 485 and EDUC 453. Supervised observation and teaching experience for 16 weeks for students who only seek endorsement in elementary art, music or physical education. Pass/No Credit basis.

EDUC 466 Elementary Student Teaching in Subject Area (6)

Prerequisite: approval to student teach. Co- requisites: EDUC 455, EDUC 476 and EDUC 486. Supervised observation and teaching experience for 8 weeks for students who seek endorsements in both elementary and secondary art, music or physical education. Pass/No Credit basis.

EDUC 468 K-6 Mild and Moderate Disabilities Student Teaching (6)

Prerequisite: approval to student teach. Co-requisites: EDUC 462, EDUC 453, and EDUC 485. Supervised observation and teaching for 8 weeks in K-6 multicategorical resource room for students with mild disabilities. Pass/No Credit basis.

EDUC 469 7-12 Mild and Moderate Disabilities Student Teaching (2 or 6)

Prerequisite: approval to student teach. Supervised observation and teaching in 7-12 special education environment serving students with mild disabilities. Elementary Education majors: Take 2 credits concurrently with EDUC 453, 460, and 485. K-12 Subject Areas: Take 2 credits concurrently with 455, 466, 476, and 486. Secondary Education majors: Take 6 credits concurrently with EDUC 455, 476 and 486. Pass/no credit basis.

EDUC 470 Secondary Student Teaching (12)

Prerequisite: approval to student teach. Co- requisites: EDUC 455 and EDUC 486. Students observe, serve as teaching assistants and take responsibility for teaching in grades 7-12 for 16 weeks under the guidance of their college supervisor, the classroom teacher and the school principal. Pass/No Credit basis.

EDUC 476 Secondary Student Teaching in Subject Area (6)

Prerequisite: approval to student teach. Co- requisites: EDUC 455, EDUC 466 and EDUC 486. Supervised observation and teaching experience for 8 weeks for students who seek endorsement in both elementary and secondary art, music or physical education. Pass/No Credit basis.

EDUC 485 Senior Seminar in Elementary Education (2)

Prerequisite: approval to student teach. Co- requisites: EDUC 453 and EDUC 460 or EDUC 462 and EDUC 468. A capstone course integrating research, theory and application of concepts and skills in the field of education. Each student will develop and present a professional portfolio and action research projects at the conclusion of student teaching, and will engage in a variety of planned professional development opportunities. Pass/No Credit basis.

EDUC 486 Professional Development Seminar-Secondary (2)

Prerequisite: approval to student teach. Co- requisites: EDUC 455 and EDUC 470 or EDUC 466 and EDUC 476. A capstone course integrating research, theory and application of concepts and skills in the field of education. Each student will develop and present a professional portfolio and action research projects at the conclusion of student teaching, and will engage in a variety of planned professional development opportunities. Pass/No Credit basis.

Engineering

ENGR 111 Engineering Graphics (2)

Prerequisite: MATH 131 and PHYS 111 each with a grade of "C" or better. Introduction to engineering design graphics, 3-dimensional visualization and spatial reasoning. Topics include descriptive geometry, engineering drawing conventions, dimensioning and tolerance specification, parametric and feature-based solid modeling, and assembly design. Emphasizes the use of CAD (Solidworks) as the major graphics and design tool.

ENGR 112 MATLAB for Engineers (2)

Prerequisites: MATH 132 and PHYS 112 each with a grade of "C" or better. Introduction to solving engineering problems using the MATLAB and basic concepts in programming. Students are expected to learn basic operations of MATLAB, various data types and ways to manipulate them, building functions and loops, data input and output, and visualization of data. The course is taught with an emphasis on engineering applications.

ENGR 211 Statics (3)

Prerequisites: MATH 132 and PHYS 111 each with a grade of "C" or better. Principles of force and moment balance are applied to systems in static equilibrium. Students are introduced to the concepts of free-body diagrams and equivalent systems of forces, moments, analysis of simple structures (e.g., trusses, frames), internal forces and stresses.

ENGR 212 Dynamics (3)

Prerequisite: MATH 231 and ENGR 211 each with a grade of "C" or better. Application of classical mechanics to engineering problems of motion and acceleration. Topics include kinematics and kinetics of particles, systems of particles, and rigid bodies.

ENGR 213 Strength of Materials (3)

Prerequisite: MATH 231 and ENGR 211 each with a grade of "C" or better. Stress and deformation analysis of materials and solid structures under a variety of load conditions. Topics include stress and strain definitions, uniaxial loading, linear elasticity, material behaviors, bending of beams, torsion of circular shafts, and thin-walled tubes.

ENGR 214 Engineering Materials with Lab (3)

Prerequisite: CHEM 111 and ENGR 213 each with a grade of "C" or better. Atomic structure, bonding, and crystal structure of solids. Mechanical and physical properties of solids mechanical and physical tests, phase equilibria, and processing of solids. Strengthening methods, principles of material selection, ferrous and non-ferrous metallurgy, polymers, and ceramic composites. Three hours of lab per week.

ENGR 221 Electrical Circuits (3)

Prerequisites: MATH 132 and PHYS 112 each with a grade of "C" or better. The course covers principles of linear circuit analysis and problem solving techniques associated with circuits containing both passive and active components. Students are introduced to DC circuit analysis, AC circuit analysis, and transient circuit analysis.

ENGR 222 Electronic Devices with Lab (4)

Prerequisite: ENGR 221 and PHYS 225 each with a grade of "C" or better. Introduces the mechanisms and principles of operation of major electronic devices: operational amplifiers, diodes, bipolar junction transistors, and field-effect transistors. Covers the terminal characteristics of the devices, volt-ampere curves, small and large signal equivalent circuit models, and basic single stage amplifier configurations. Three hours of lab per week.

ENGR 311 Thermodynamics (3)

Prerequisites: MATH 132 and PHYS 112 each with a grade of "C" or better. An introduction to classical thermodynamics. Fundamental concepts based on zeroth, first and second laws of thermodynamics. State descriptions of pure substances and mixtures. Control volume analysis and conservation principles applied to systems with respect to mass, energy, and entropy with applications to power, refrigeration, chemically reacting and other energy conversion systems.

ENGR 312 Fluid Mechanics (3)

Prerequisite: MATH 231, MATH 250 and ENGR 212 each with a grade of "C" or better. An introductory course in fluid mechanics. Fundamental concepts including continuity, momentum, and energy relations. Control volume analysis and differential formulations. Internal and external flows in laminar and turbulent regimes. One dimensional compressible flows.

ENGR 313 Theory of Machines (3)

Prerequisites: ENGR 212 and ENGR 213 each with a grade of "C" or better. Analysis and synthesis of mechanisms using graphical and analytical techniques. Applications include cams, gears, and linkages such as four-bar, slider-crank, and quick-return mechanisms. Gear train specification and force analysis. Position, velocity, and acceleration analysis and mechanical advantage of a wide variety of linkage systems.

ENGR 314 Heat Transfer with Lab (4)

Prerequisites: ENGR 214, ENGR 311 and ENGR 312 each with a grade of "C" or better. Examines fundamentals of conduction, convection, and thermal radiation energy transfer. Conduction of heat in steady and unsteady state. Principles of boundary layer theory applicable to free and forced convection heat transfer for internal and external flows. Radiation analysis with and without convection and conduction. Three hours of lab per week investigating thermo-fluids phenomena.

ENGR 321 Electromagnetism (3)

Prerequisites: PHYS 215 and PHYS 216 each with a grade of "C" or better. Examines electrostatics, Coulomb's law, Gauss's law, polarization, permittivity, electric energy, and capacitance. Magnetostatics, the Lorentz force law, the Biot-Savart law, Ampere's law, magnetization, permeability and constitutive relations, magnetic energy, and inductance. Introductory Maxwell's equations. Transmission lines, voltage and current waves, wave impedance, reflection, SWR, and the Smith chart.

ENGR 322 Signals and Systems with Lab (4)

Prerequisites: MATH 250, ENGR 112 and ENGR 222 each with a grade of "C" or better. An introduction to the framework associated with the analysis of linear systems. Continuous and discrete time signals, signal manipulations, signal representation by orthogonal functions, impulse response, convolution, Fourier and Laplace analysis, and frequency response of circuits and systems. Three hours of lab per week.

ENGR 411 Dynamic Systems and Control with Lab (3)

Prerequisites: ENGR 313, ENGR 322 and PHYS 216 each with a grade of "C" or better. Fundamentals of dynamic system analysis and control systems. Topics include: system modeling and representation, system time and frequency response, system stability, open loop and closed loop systems, PID controllers, control design using root-locus, frequency response, and state space analysis. Three hours of lab per week.

ENGR 421 Digital Control Systems (3)

Prerequisites: ENGR 313, ENGR 321 and ENGR 322 each with a grade of "C" or better. Study and analysis of digital control systems. Topics include: system interfacing and data acquisition, study of different types of actuators and sensors, development of circuits for automation, and controller design for digital systems.

ENGR 430 Senior Engineering Elective (3)

Prerequisite or co-requisite: ENGR 485. Study of advanced engineering topics with emphasis on engineering design. May be repeated with different topics.

ENGR 485 Capstone Design I (1)

Prerequisites: ENGR 111, ENGR 313, ENGR 314 and ENGR 322 each with a grade of "C" or better. This is the first course in a two-course sequence in design and gives senior engineering majors an opportunity to complete a major design experience based on the knowledge and skills acquired in engineering course work. Student groups will work on projects with industry mentors to identify a real-world engineering problem and devise its solution incorporating appropriate engineering standards and multiple realistic constraints. Students will analyze the problem and perform design, implementation and evaluation of their solution. Students will work as a team and report their progress and results.

ENGR 486 Capstone Design II (3)

Prerequisites: ENGR 411, ENGR 421, and ENGR 485 each with a grade of "C" or better. Continuation of Capstone Design I. The objective of Capstone Design II is to provide Engineering students with an opportunity to further refine design skills developed during Capstone Design I and conclude the design project started in the fall semester.

English

ENGL 140 Introduction to Creative Writing (4)

Practice in creative writing- with an emphasis on poetry, creative nonfiction, and fiction- combined with models and techniques. (ART, WRT)

ENGL 160 The Literary Imagination (4)

Prerequisite: limited to first and second-year students. The Literary Imagination introduces students to the critical concepts and vocabulary of literary study by focusing on a specific genre or topic. Designed for potential English majors as well as for all students who enjoy reading literature. Promotes the development of college-level skills in writing and critical thinking. (LP, WRT, EXP)

ENGL 180 The Reader's Toolbox (3)

This course introduces students to various approaches to critical reading. Students will practice reading, summarizing, and responding to critical articles that reflect a variety of methods of literary study. Required for English majors. (LP, EXP)

ENGL 208 Literature for Children (3)

Prerequisite: Admission to the teacher education program or instructor's permission. Intended for students in the teacher education program. Furnishes a background of juvenile literature through wide reading in various types of materials both classic and modern. Includes principles of evaluation, selection and presentations of material. Stresses an appreciation for good literature. Does not count toward the major.

ENGL 211 Literature of India and the Pacific (3)

Surveys major contemporary anglophone writers from India and/or the Pacific. Emphasis on Naipaul, Rushdie, Narayan, Desai, Ondaatje, Grace, White and Keneally. (LP, GPN)

ENGL 212 Caribbean Literature (3)

Studies contemporary writers of the Caribbean and the Caribbean diaspora. Emphasis on resistance and response to European colonialism and plantation slavery. Possible authors include Edwidge Danticat, George Lamming, Sam Selvon, Aimé Césaire, Grace Nichols, Jamaica Kincaid, and Kei Miller. (LP, GPN)

ENGL 213 Literature, Environment, and Ecology (3)

Studies the literary tradition of nature as a source of inspiration for many poets, novelists, and essayists. Explores writings and films concerned with climate change and the triple bottom line of sustainability. Readings include authors such as Leopold, Carson, Kimmerer, Kingsolver, and Pollan. (LP, GS)

ENGL 214 Literature by Women (4)

Studies British and American literature by women from the Renaissance to the present. Attention to thematic and stylistic concerns of women's literary traditions and an introduction to feminist theory. Authors might include Margaret Cavendish, Adrienne Rich, Audre Lorde, Toni Morrison and Margaret Atwood. (LP, WRT)

ENGL 215 African-American Literature (4)

Explores the tradition of African-American writing, with an emphasis on the Harlem Renaissance to the present. Includes attention to thematic and stylistic concerns of African American literature and an introduction to critical race theory. Authors might include Langston Hughes, Zora Neale Hurston, Ralph Ellison, James Baldwin, Audre Lorde, and Toni Morrison. (LP, GPC, WRT)

ENGL 216 LGBTQ+ Literature and Culture (3)

Examines how different genres of literature articulate LGBTQ+ experiences, intimacies, politics, and communities by undertaking close readings of plays, poetry, and fiction from the 16th century to the present. We will question how those texts stage sexuality in relation to gender, race, health, activism, economics, and kinship, aiming to understand how queer sexualities are produced both through and against these other categories of experience. (LP, GPC)

ENGL 217 Literature and Film of the Middle East (4)

Surveys the rich traditions of literature, film, music, and comics in the Modern Middle East and its diaspora. Uses a multi-media approach to study topics including the Arab Spring, Islamophobia, oil and international politics, gender and Islamic feminism, and the refugee experience. (LP, GPN, WRT)

ENGL 222 Literature for Young Adults (1)

Provides a background of literature for young adults through wide reading in various types of materials both classic and modern. Includes principles of evaluation, selection and presentations of material.

ENGL 230 Principles of Linguistics (3)

Presents the fundamentals of the science of linguistics and an overview of the major sub-fields of the discipline. The major focus is on the solution of problems in phonology and morphology, and on collateral work in areas selected with consideration for any special needs and interests of class members.

ENGL 236 The American Experiment, Origins-1890 (3)

Surveys American literature from the oral tradition through Romanticism. Major periods covered include Pre-Columbian indigenous literature, European contact with First Nations in North America, Puritan New England, the Early Republic, and American Romanticism. Representative authors include Cabeza de Vaca, John Winthrop, Anne Bradstreet, Phillis Wheatley, Nathaniel Hawthorne, Harriet Jacobs, Walt Whitman, and Emily Dickinson. (LP)

ENGL 237 The American Experiment, 1890- Present (3)

Surveys American literature from the postbellum period to the present day. Major periods covered include Realism, Naturalism, Modernism, and Postmodernism. Representative authors include Mark Twain, Charles Chesnut, Kate Chopin, William Faulkner, Willa Cather, Toni Morrison, Louise Erdrich, George Saunders, and Adrienne Rich. (LP)

ENGL 240 The Personal Essay (4)

Instruction, practice and experimentation in the art of the personal essay. Readings include both contemporary and historical examples of the form. (ART, WRT)

ENGL 241 Short Story Writing (4)

A workshop course exploring the art and craft of short story writing. Readings include stories by contemporary fiction writers. (ART, WRT)

ENGL 243 Writing Oral Histories (4)

Blends narrative techniques with fact-driven reporting. Explores both short articles and feature writing, hones interviewing and research skills, and emphasizes the importance of both note taking and revision in the writing process. Discussions emphasize selections from literary journalism and longform radio storytelling. (ART, WRT)

ENGL 244 Professional Writing (3)

Theory, principles and processes of effective communication typically encountered in business and the professions. Practice in many areas of professional communication, including letter, memo, and email correspondence; short and formal reports, and formal presentations. Best for students who have had an internship or are preparing for one. (WRT)

ENGL 246 Writing for Non-Profit Organizations (4)

Prerequisite: second- year standing. Instruction in and practice of writing designed to extend the concept of community and interrogate the notion of "service." Students write for community organizations, social service agencies and other not-for-profit groups and associations. Note: This course does require a service-learning component. (WRT)

ENGL 251 Monsters and Monstrosity in English Literature 800-1785 (3)

Surveys major literary movements from Beowulf to the eighteenth century. Emphasis on the theme of monstrosity as it relates to politics, religion, race, gender, sexuality, disability, form, and genre. Reading list includes major authors and new additions to the literary canon as well as scholarship in medieval and early modern studies. Authors might include Chaucer, Wyatt, Sydney, Marlowe, Webster, Behn, Milton, and Equiano.. (LP)

ENGL 252 The Haunted House of British Literature, 1785- present (3)

Surveys British literature from 1785 to the present with an emphasis on texts that examine the "ghosts" of Britain's past and of Britain-yet-to-come. Possible authors include Zadie Smith, Hanif Kureishi, Salman Rushdie, Alan Moore, Virginia Woolf, Toru Dutt, Vernon Lee, and Mary Seacole. (LP)

ENGL 260 Irish Literature (3)

Studies the major literary artists in Ireland. Authors studied include Swift, Wilde, Shaw, Yeats, Joyce, Beckett, Heaney, Boland and McGuckian. (LP, GPN)

ENGL 270 Illness and Health in Literature (4)

Emphasizes the interdependence of storytelling and science and raises questions about the human condition by exploring the roles of literature and the creative arts within medicine. Readings will include fiction, memoir, and drama. (LP, WRT)

ENGL 320 Teaching Writing (2)

Focuses on both the theory and practice of teaching writing. In addition to becoming conscious of their own writing process, students will gain practical experience in helping others to write.

ENGL 342 Advanced Poetry Writing (3)

A course for students with experience in writing poetry that links writing to contemporary discussions in poetic thought. Readings focus on contemporary poetry and on essays of the craft and theory of poetry writing. (ART)

ENGL 346 Discovering Shakespeare (3)

Studies Shakespeare's major comedies, tragedies, histories, and romances. Includes background on Shakespeare's life and times and an introduction to Shakespeare scholarship. Emphasis on oral interpretation and performance. (LP)

ENGL 361 World Literature (4)

Studies major works of world literature. Rotating reading list includes texts from the ancient world through the present day. Emphasis on writing and research. (LP, WRT)

ENGL 374 Studies in 19th Century Literature (4)

Prerequisite: Two 200-level literature courses or instructor permission. Studies major works by British Romantic and Victorian authors such as Wordsworth, Byron, P. B. and Mary Shelley, Charlotte and Emily Bronte, George Eliot and Hardy. (WRT)

ENGL 375 Studies in 20th Century Literature (4)

Prerequisite: Two 200-level literature courses or instructor permission. Studies works by major figures of 20th century literature in English such as Conrad, Joyce, Woolf, Yeats, Auden, Faulkner, O'Connor, Wright, Lessing, Pynchon, Rich, Rushdie, Gordimer, Achebe and Walcott. (WRT)

ENGL 378 Literary Topics (4)

Rotating topics in American and British Literature, repeatable for credit. Some courses might offer focused surveys of historical periods. Others might follow the genre/issue model. Topics might include Literary Histories of Race and Gender, Gender and Disorder on the Renaissance Stage, Medical Humanities, Modernism, Ethnic American Literature, Literature and Wonder, Sound and Voice in Literature, Environmental Literature, and Transimperial Lit and Postcolonial Theory. (LP,WRT)

ENGL 425 Seminar in Literary Studies (4)

Prerequisites: Third-year standing and at least one 300-level literature course. A specialized investigation into a specific and limited topic or major author, such as Ben Jonson and Christopher Marlowe; Willa Cather; Thomas Pynchon; Virginia Woolf and Toni Morrison; or Ecocriticism. Each seminar will focus on the student's critical and research abilities to produce a major analytic project.

ENGL 497 Internship in Writing (Arr)

Prerequisite: third-year standing and instructor's permission. Available only to English majors or majors with an emphasis in writing. An applied writing experience in a business, institutional or governmental setting. Includes conferences with on-campus staff, a portfolio of work written during the internship, and evaluation by the job supervisor. Pass/No Credit basis.

ENGL 199, 299, 399, 499 Independent Studies in English (Arr)

Prerequisite: instructor's permission. Student-defined tutorial of readings and research. Each participant will submit a proposal to the department.

Entrepreneurship

ENTR 100 Exploring Entrepreneurship (1)

Prerequisite: participation in the Business Horizons Program. Explores the aspects of a free enterprise system through a business simulation process of creating a new business venture. This includes developing a product, crafting a mission and vision statement, branding the company, and producing business and marketing plans. Students will also execute a marketing plan by producing promotional materials and prepare an investor pitch presentation. Offered pass/no credit only.

ENTR 215 The Entrepreneurial Mindset (3)

This course is designed to inspire and engage participants in the fundamental aspects of an entrepreneurial mindset and the unlimited opportunities it can provide. The overall objective is to empower learners through entrepreneurial thinking and immerse them in entrepreneurial experiences that will enable them to develop entrepreneurial skills.

ENTR 315 Advanced Entrepreneurship: Startup Semester (3)

Prerequisite: ENTR 215. This course provides students with a toolkit of techniques, skills and resources that will empower them to accept the entrepreneurial challenge of starting and operating a new business venture, all in a semester's time. Students will learn the fundamentals of business models/customer development and then get out of the building to interact with customers, vendors, partners and suppliers while developing a sustainable business.

ENTR 384 Field Experience in Entrepreneurship (1-3)

Prerequisite: ENTR 215. Co-requisite: ENTR 315. The primary purpose of this course is to provide structure/organization for a group of activities/projects/experiences by students completing the requirements of the Entrepreneurship Program. The focus of this experiential course is on new venture creation (startup phase) in a live environment. Projects may include a new student led venture or working closely with entrepreneurs on specific projects leading towards a launch of a new venture. Pass/No Credit basis.

Environmental Studies

ENVS 120 Introduction to Environmental Science with Lab (4)

Introduction to the structure and function of ecosystems and how they are altered by human activity. Surveys various environmental issues such as human population problems, endangered species and habitats, land and food resources, human health and the environment, water and energy resources, and air pollution. One 3-hour lab per week. (NS, GS, EXP)

ENVS 125 Geology and the Environment with Lab (3)

Introduction to the elementary principles of physical geology, including identification of minerals and the major rock types. Examines applications of geological resources and the associated environmental impact as well as a review of the processes forming them through tectonic activity and geomorphic agents. Reviews events over geologic time and the geologic history of Iowa. Includes a 3 hour lab and weekend field trips. (NS, GS)

ENVS 240 Agriculture and Sustainability (3)

Modern agriculture has been essential in feeding the world's growing population. But is it sustainable? In this course, we will engage in a holistic examination of agriculture, covering the history of our current system, examine trends in sustainable agriculture and investigate connections between agriculture, the environment, our current socio-economic systems and global health. (GS, WRT)

ENVS 380 Environmental Studies Seminar (3)

Prerequisite: ENVS 120 and third-year standing or instructor's permission. Students select and develop a project through research and examination of current environmental and sustainability issues. Within an interdisciplinary perspective, they will develop a collaborative research proposal, gaining experience in proposal writing and project design and logistics. Specific topics will depend on the interests of the students and instructor. Students will develop writing skills, learn about qualitative and quantitative data analysis and provide critical analysis of existing literature. Students will be required to present and communicate effectively on chosen topics. (WRT, WOC)

ENVS 480 Environmental Studies Senior Seminar (1)

Prerequisite: ENVS 380 or instructor permission. Examines current environmental issues from an interdisciplinary perspective. Students will be required to present and communicate effectively on topics at hand. Specific topics will depend on the interests of the students and instructor(s).

Fine Arts

FA 226 Global Cinema (3)

This course invites students to compare films from different cultural traditions and to learn the language of cinema. The course will explore the ways in which film-makers across the globe and throughout the century have borrowed tools and techniques from each other to create new cross-cultural experiences. Cinema from Europa, the Middle East, Africa, and Asia will be discussed. The course is taught in English with German writing assignments and discussion sections. (ART, GPC). Students may not also receive credit for GERM 326 and FREN 326.

French

Note: Courses offered by the department of modern languages are calibrated to the nationally recognized target levels of proficiency defined by the American Council on the Teaching of Foreign Languages. Details are available from the department.

FREN 121 Beginning French I (4)

A broad-based course developing skill in speaking, reading, writing and understanding spoken French. The cultural element stresses contemporary France.

FREN 122 Beginning French II (4)

Prerequisite: FREN 121. A continuation of the introductory course. Offers further development of skills in all areas and study of contemporary France.

FREN 221 Intermediate French I (4)

Prerequisite: FREN 122, placement. A continuation of FREN 122. Carries the students in French closer to mastery of the skills of understanding, speaking, reading and writing the language. Includes a study of selected aspects of French culture. (GPN)

FREN 222 Intermediate French II (4)

Prerequisite: FREN 221 or instructor's permission. A continuation of FREN 221. Carries the students in French closer to mastery of the skills of understanding, speaking, reading and writing the language, with emphasis on increasing reading skills. Includes a study of selected aspects of French culture. (GPN)

FREN 321 Culture and Conversation (4)

Prerequisite: FREN 222, placement, or instructor's permission. Focuses on exploring French and Francophone culture thematically through the French language. (GPN)

FREN 323 Exploring French and Francophone Literary Expression (4)

Prerequisite: FREN 321, FREN 322 or instructor's permission. An introductory survey of French and Francophone works, authors, terminology, genre and literary history. (LP, GPN)

FREN 324 Exploring French and Francophone Media (4)

Prerequisite: FREN 222, placement, or instructors permission. Explores the French and Francophone world through contemporary media in French. Emphasis on speaking and listening to authentic French. (GPN)

FREN 326 Global Cinema (4)

Prerequisite: FREN 321 or FREN 322 or instructors permission. This course invites students to compare films from different cultural traditions and to learn the language of cinema. Students will learn how film-makers from around the globe have given voice to people and cultures rarely seen in Western film. The course will also explore the ways in which film-makers across the globe and throughout the century have borrowed tools and techniques from each other to create new cross-cultural experiences. Cinema from Europa, the Middle East, Africa, and Asia will be discussed. The course is taught in English with weekly discussion section in French. (ART, GPC). Taught as FREN 390 in the fall of 2018. Students may not also receive credit for FA 226 and GERM 326.

FREN 489 Senior Capstone in French (3)

Prerequisite: completion of study abroad or instructor's permission. Normally taken during the student's last semester on campus. The student will collaborate with an advisor to prepare and deliver a formal presentation in French before a jury. At this time the student will demonstrate skills, knowledge and dispositions appropriate for the major.

FREN 490 Topics in Francophone Literatures and Civilization (3)

Prerequisite: study in Paris or instructor's permission. Study of the francophone cultures and literatures through analysis of texts and films of Québec, the French West Indies and North and West Africa. (LP, GPC)

FREN 494 Language Teaching Practicum (6-9)

Offers opportunity to apply second-language teaching methodology in small-group setting. Emphasis on oral skill development. Will be supervised by a faculty member.

FREN 497 Internship-French (Arr)

Prerequisite: Completion of a year of study on the Paris program with a minimum GPA of 3.00 and instructor's permission. The internship provides an opportunity for the student to explore a career option in the major field of study. Pass/No Credit basis.

FREN 499 Independent Study-French (Arr)

Prerequisite: one literature course and instructor's permission. Designed for majors who wish to investigate some area of individual interest not covered by courses offered in the department. Number of credits determined by the scope of the study undertaken. Offered any semester with the permission of the head of the department.

General College Credit (non-departmental courses)

GENR 104 Introduction to College Success (1)

Examines skills required to maximize the college experience within the liberal arts framework. Examines learning styles, critical thinking, personal responsibility and use of resources. Limited to first-semester students.

GENR 105 Introduction to College Success II (1)

Prerequisite: GENR 104 and participation in the SSS program. A continuation of GENR-104 where students will develop self-awareness and lifelong learning skills. Examines career exploration, personality preferences, learning styles and emotional intelligence. This course meets in the second half of the semester.

GENR 106 Intro to Central: Transfers (1)

This course provides transfer students with an introduction to Central College. Class discussion will address acclimation to Central's community, engagement in activities and how to succeed academically.

GENR 130 Why Gender Matters (3)

Gender is a universal lens through which societies are organized and identity is experienced. As a field of academic inquiry, Gender Studies intersects with virtually every other academic discipline. This course will introduce students to a range of scholarship and diverse perspectives from this dynamic field to explore question "why does gender matter?" for us as students, as engaged citizens, and in our communities. (GPC, EXP)

GENR 204-SS Introduction to College Success III (1)

Prerequisite: GENR-104 and GENR-105. This course serves as a follow-up to GENR-104-SS Intro to College Success I and GENR-105-SS Intro to College Success II from the initial semester and continues to help students get acclimated to life at Central. Topics include increasing self-awareness of individual strengths and interests, increasing financial literacy, formulation of career goals, exploration of cultural diversity and empathy, and a variety to wellness concepts.

GENR 214 Mock Trial (1-2)

Students will study the American judicial process and argue a simulated civil or criminal case in multiple intercollegiate competitions sponsored under the auspices of the American Mock Trial Association. The course focuses on the development of critical thinking and oral communication skills. Offered for two credits in the fall and one credit in the spring. Unlimited repeats allowed. Pass/No Credit basis.

GENR 230 Gender Studies in Context: From Aesthetics to Athletics (4)

This course examines gender-related concepts, expectations, and assumptions in order to reflect on the question "how shall we live?" School, sports, work, relationships, healthcare, and civic life will be among the objects of our inquiry using analytic tools of gender studies and feminist theory. By examining how gender intersects with other dimensions of diversity, including race, sexual identity, class, and dis/ability, we will develop tools and strategies for becoming increasingly effective practitioners of Diversity, Equity, and Inclusion on campus, at work, and in communities. (GPC)

GENR 283 Experiential Module (1-2)

Prerequisite: instructor's permission. Provides for individualized experiential opportunity in an approved off-campus cross-cultural experience. Requires consultation with a faculty member, preparation and approval of a proposal that specifies a required bibliography on the target culture, the type of reflection that will take place, the format of the final product and the presentation of a final product. Requires a minimum of 15 hours of direct contact for each hour of credit requested. Also requires participation in diversity training and orientation seminar unless previously completed. Pass/No Credit. May be repeated.

GENR 330 Witches and Warriors: Feminist Thought and Social Justice (3)

This interdisciplinary course examines critical developments and debates in feminist theory. Reading diverse works in feminist scholarship, both classic and contemporary, will challenge us to engage with new perspectives on the development of feminist thought over time. As we examine the ways in which gender issues intersect with race, class, and colonialism, we will apply an expanding body of theoretical insights to address real-world inequity. Understanding the historical and theoretical foundations of Women's, Gender, and Sexuality studies will enable students to effectively apply a critical lens to disciplinary and interdisciplinary study and to develop strategies for feminist practice in scholarship and civic life.

Geography

GEOG 110 Introduction to Geography (3)

As an introduction to the broad field of Geography, this course introduces students to a survey of geographic concepts ranging from economy, politics, plants, urbanization, culture, and landforms to industry, population, and agriculture. In this course, students will also learn about the tools Geographers use to study the world, including maps. The course is therefore designed for students who are new to geography, and it will attempt to engage their broad interests through the lens of geographical thinking and analysis. (SB, GS)

GEOG 210 Human Geography (4)

Examines and analyzes changing interconnections among places by exploring dynamic processes and patterns worldwide, including the distribution and diffusion of people, their religions, customs, and economic means, providing an understanding of spatial and functional (space and scale) patterns of the cultural, social, political, and economic processes that shape the geography of the world. (SB, GS)

GEOG 215 Introduction to International Studies (3)

Introduction to the complexities and diversity of political, economic, social and cultural interactions of nations and people. Provides an expanded understanding of the world and cultures, through exploration of global and regional issues (GPN)

GEOG 225 Geography of Sub-Saharan Africa (3)

The African continent remains a mystery to many outside of that region. Students will examine the diverse experiences of the people who live there with particular attention paid to the environmental and cultural geography south of the Sahara. Students will explore various challenges and opportunities that people in this region face such as food insecurity, rural/urban conflicts, environmental management, gender empowerment, foreign aid, debt, and engagement with both the United States and China. (SB, GS, GPN)

GEOG 237 Physical Geography: Weather and Climate with Lab (4)

Explores how the earth's natural systems (weather, climate, and hydrological processes) interrelate, work and interact to shape and influence earth's natural regions, including soils and the biosphere. One three-hour lab per week. (NS, GS, EXP)

GEOG 238 Physical Geography: Geomorphology with Lab (4)

Explores how the earth's natural processes (fluvial, aeolian, karst, glacial and coastal processes) work and interact to shape and influence earth's environments. One three-hour lab per week. (NS, WRT)

GEOG 320 Principles of GIS with Lab (3)

Prerequisite: second-year standing. Introduces students to the basic concepts of GIS and its applications to natural resource management, marketing and disaster preparedness. Covers the fundamental components of Geographic Information Systems including types of spatial data, data entry, analysis and display, as well as creating and managing GIS projects. Also covers some of the more advanced functionality of geoprocessing through Spatial and Network Analyst. One three hour lab per week.

GEOG 325 Planning for Sustainable Communities (4)

Prerequisite: second-year standing. Explores the theory and practice of sustainable community planning and examines ways that geographers and urban and regional planners engage in creating more environmentally, socially and economically sustainable communities at multiple scales, from the local community to larger regional, national and global communities. We will consider urban and surrounding rural communities, exploring how they are interconnected in multiple ways, requiring integrated community and spatial planning. (GS)

GEOG 420 Advanced GIS with Lab (2)

Prerequisite: GEOG 320. This course builds on introductory principles of GIS, examining where and how GIS is used in advanced spatial analyses. Topics covered in the course include: spatial literacy, 3-D representations in GIS, online GIS services, spatial statistic, as well as a variety of modeling techniques in GIS. Students will be expected to develop their own GIS project, as well as complete weekly laboratory assignments.

German Studies

Note: Courses offered by the department of modern languages are calibrated to the nationally recognized target levels of proficiency defined by the American Council on the Teaching of Foreign Languages. Details are available from the department.

GERM 121 Beginning German I (4)

Training in understanding the spoken language, reading and the fundamentals of grammar. Includes an introduction to aspects of the culture(s) of German-speaking countries.

GERM 122 Beginning German II (4)

Prerequisite: GERM 121 or equivalent. Continued training in understanding the spoken language, reading and the fundamentals of grammar. Includes an introduction to more aspects of the culture(s) of German-speaking countries.

GERM 240 The German Imagination (3)

Taught in English; also offered as GERM 340. By examining literary and non-literary readings, film, and popular culture, students will be introduced to the development of a particularly German cultural and intellectual tradition. Students who wish to count this course toward the German Studies major or minor or receive 300-level credit must register for GERM 340, which has a prerequisite of GERM 321, and will be assigned alternative course work and readings in German. (LP)

GERM 326 Global Cinema (4)

Prerequisite: GERM 321 or GERM 322 or instructor's permission. This course invites students to compare films from different cultural traditions and to learn the language of cinema. Students will learn how film-makers from around the globe have given voice to people and cultures rarely seen in Western film. The course will also explore the ways in which film-makers across the globe and throughout the century have borrowed tools and techniques from each other to create new cross-cultural experiences. Cinema from Europa, the Middle East, Africa, and Asia will be discussed. The course is taught in English with German writing assignments and discussion sections. (ART, GPC). Taught as GERM 390 in the fall of 2018. Students may not also receive credit for FA 226 and FREN 326.

GERM 362 Germany and the Environment (3)

This course will examine Germany's relationship to the environment in light of its particular political, cultural and business context. Taught in English, with appropriate assignments for students wishing to count this course toward a German Studies major. (GS, GPN)

GERM 390 Topics in German (3)

Offered as needed to meet student needs and interests when these cannot be accommodated by regular offerings. May be taught in English or German, depending on student population, with appropriate assignments for students wishing to count this course toward the German Studies major. May be repeated for credit when the course focuses on a different topic. (GPN)

GERM 489 Senior Capstone (1)

Prerequisite: Completion of study abroad or instructor's permission. Intended to be taken concurrently with another German Studies course. Students will compile a portfolio including materials for professional use and additional written assignments in German, which demonstrate the students' critical reflection upon their experiences in Pella and abroad.

GERM 494 Language Teaching Practicum (6-9)

Offers opportunity to apply second-language teaching methodology in small-group setting. Emphasis on oral skill development. Will be supervised by a faculty member. May be repeated. Pass/No Credit basis.

GERM 497 Internship in German (Arr)

The German internship program is designed for the German language student who wants to broaden his/her classroom studies with an actual work experience in a German language environment. Pass/No Credit basis.

GERM 499 Independent Study-German (Arr)

Open to qualified students with departmental approval.

History

HIST 125 World History to 1500 (3)

This course examines the similarities and differences between multiple cultural centers in the Americas, Africa, and Eurasia starting in the Neolithic. Topics will include politics, religion, art, migration, and intercultural interactions. The course concludes with the start of the European "Age of Discovery" in the 15th century. (HP, GPN, EXP)

HIST 126 World History Since 1500 (3)

Starting in 1500, we will investigate the places and events that have helped shape the world in which we live. In particular, we will focus on how groups of people meet and interact. We will look at the connections between Europe, Africa, East Asia, and the New World. (HP, GPN, EXP)

HIST 130 United States to 1877 (3)

A survey of American history from European exploration and discovery through the Civil War and Reconstruction emphasizing political, economic, social and cultural development. The process of emerging problems and solutions will be analyzed. (HP, EXP)

HIST 131 United States Since 1877 (3)

A survey of American history from the last quarter of the nineteenth century until the Present emphasizing continued national development in political, economic, social and cultural arenas. The process of emerging problems and solutions will be analyzed. (HP, EXP)

HIST 132 Issues in American History (3)

Addresses the changing interpretations of various topics in American history, as chosen by the instructor, from the colonial period to the present. Promotes the development of analytical thinking and writing and engages in dynamic learning with group discussions and individual presentations. May be repeated with different topics. (HP)

HIST 210 History of Modern Europe (4)

This course explores the history of Europe from the end of the Middle Ages until today. The continuous shift between fragmentation and relative unity in economic, political, and social spheres will underpin the class. (HP, GPN)

HIST 212 World War I and II (4)

A detailed examination of World War I and World War II. The causes, combat, and outcomes of both wars will be discussed. The ultimate goal is to investigate how these two wars shaped the twentieth century. (HP)

HIST 213 Russia and the USSR (4)

This course provides a broad overview of the USSR from its creation to its dissolution. We begin by looking at the origins of the Soviet Union in Tsarist Russia and explore the Union itself (politics, economics, and society). Finally, we examine the fallout after the 1991 collapse including Vladimir Putin and the Chechen Wars. (HP)

HIST 215 The Balkans: Between East and West (4)

This course provides an overview of the history of the Balkan Peninsula (including the modern Bosnia-Herzegovina, Croatia, Serbia, Bulgaria, Romania, and Macedonia among others). In particular, we will look at the region as a meeting point of cultures: Greek and Latin, Christian and Muslim, capitalist and communist. (HP, GPN)

HIST 216 Germany and Central Europe (4)

Bounded by Germany in the west, Poland in the east, the Baltic Sea in the north, and to the northern Balkans in the south, Central Europe is a geographical space as well as a persistent idea. This course will explore the history of this region from antiquity to the present day focusing on conflict and accommodation. (HP, GPN)

HIST 217 Contemporary Europe (4)

This course will examine the history of Europe from 1890 until the beginning of the twenty-first century. We will spend a significant amount of time examining how modern European history is one of conflict (World Wars I and II, the Balkan Wars of the 1990s) and division (the Cold War) but also one of increasing unity (the European Union) and the recent current trends towards separatism. Formerly numbered POLS-223. Students with credit for POLS-223 may not also receive credit for HIST-217. (HP, GPN)

HIST 220 Middle Eastern Civilization (3)

Studies the history of Middle Eastern Civilization from antiquity to the present through an examination of the major political events of the region in both the ancient and modern worlds and with particular interest in its three main religions, Judaism, Christianity and Islam. The course also examines the history of the recovery and reformulation of Classical Greek philosophy and science in the Arab world and studies the influence of Arabic philosophy on the medieval and modern political situation in the Middle East and Europe. (HP, GPC, WRT)

HIST 230 Colonization and American Revolution: 1607-1787 (4)

Examines the major influences in the development of national values and institutions from the Age of Discovery and Exploration and the Colonial Period through the American Revolution and the drafting of the Constitution in 1787. (HP)

HIST 231 American Expansion and Civil War: 1787-1877 (4)

An examination of the major political, social, economic and cultural trends in the United States from its constitutional beginnings through Reconstruction. Major topics will include early national development, Jacksonian Democracy, Manifest Destiny and expansion, and slavery and the sectional crisis leading to the Civil War. (HP)

HIST 232 America's Rise to Power: 1877-1945 (4)

Examines the transformation of the United States from Reconstruction through World War II when the nation evolved from isolation and pre-industrial values and institutions to a modern country characterized by industrialization, immigration, urbanization and international diplomacy and warfare. (HP)

HIST 233 The Fifties and Sixties: U.S. History: 1945-1975 (4)

An examination of the major political, economic, social, cultural, and diplomatic trends from World War II through the end of the Vietnam War and Richard Nixon's presidency. Major areas of consideration will include the Cold War at home and abroad, the Civil Rights Movement, Vietnam, the New Left and the Counterculture, the Women's Movement, and Nixon's presidency. (HP)

HIST 234 Recent United States: 1975- Present (4)

An examination of the major political, economic, social, cultural, and diplomatic trends from the post-Watergate era through the present. Major areas of consideration will include the rise of the New Right in politics and culture, the limits of the American economy, Carter diplomacy, the impact of the Middle East Hostage Crisis, Ronald Reagan and the Cold War, the end of the Cold War, the New World Order, the computer and communications technology revolution, the 2000 presidential election, the impact of 9/11/01, and the wars with Iraq. (HP)

HIST 235 The Immigrant Experience (4)

An overview of patterns and issues in immigration history and in the acculturation of immigrants to American society. Primary, but not exclusive, focus on Iowa. Includes case study, personal investigation of and contact with an immigrant individual, family or group. (HP, GPC)

HIST 237 American Environmental History (4)

Environmental history studies the changing relationships between human beings and the natural world through time. This course examines American history through the lenses of conservation, environmentalism, geography, philosophy, public policy, and technology. Consequently, American history looks very different when seen in environmental context. (HP, GS)

HIST 250 Latin American Civilization (4)

A survey of Latin American history, culture and politics from 1500 to the present, with a focus on Mexico and Peru – the two most diverse countries in Spanish-speaking America. Students read extensively in primary and secondary sources on these two countries, and also conduct research a topic of individual interest in Latin America. (HP, WRT, GPC)

HIST 280 Modern African Civilization (4)

An interdisciplinary survey of cultures and life in modern Africa. Emphasis on sub-Saharan African history, art, political economy, women, development and society. Explores sustainability principles across cultures, historical time periods, and societies. (HP, GS, GPN)

HIST 310 Studies in World History (4)

Prerequisite: second-year standing. Addresses the changing interpretations of various topics in world history, as chosen by the instructor, from ancient times to the present. Promotes the development of analytical thinking and writing and engages in dynamic learning with group discussion and individual presentation. May be repeated with different topics. (HP)

HIST 330 Studies in American History (4)

Prerequisite: second-year standing. Addresses the changing interpretation of various topics in American history, as chosen by the instructor, from the colonial period to the present. Promotes the development of analytical thinking and writing and engages in dynamic learning with group discussions and individual presentation. May be repeated with different topics. (HP)

HIST 485 Historiography Seminar (4)

Prerequisite: instructor's permission. Examines the nature of historical inquiry and methodology over time. Includes discussion of recent issues in the field of History.

HIST 486 History Research Seminar (4)

Prerequisite: instructor's permission. This course is designed to help students learn how to do sophisticated historical research, read and interpret primary and secondary source materials, and write a formal research paper in a scholarly manner. (WRT)

HIST 497 Internship: Public History (Arr)

Prerequisite: instructor's permission. These are off-campus experiences designed to enrich a student's education through supervised practical experience in the field of public history. This can include work in the area of museum studies, archival theory and practice, historical preservation, oral history and local history. Pass/No Credit basis.

HIST 499 Independent Study-History (Arr)

Prerequisite: instructor's permission.

Honors

HONR 191 Honors Seminar (1)

Prerequisite: honors-eligible status. A seminar designed for honors-eligible students to explore a specific topic or issue. May be repeated for credit.

HONR 391 (1)

Prerequisite: honors-eligible status. A seminar designed for honors-eligible students to explore a specific topic or issue. May be repeated for credit.

Kinesiology

KIN 111 Essentials of Human Anatomy and Physiology with Lab (4)

This is a single semester course introducing the morphology (structure and function) of the human body designed to prepare students for the Exercise Science and Athletic Training major curriculum. The course includes study of all eleven systems of the body. Students will meet for lecture three times per week and a 90-minute laboratory once a week. The laboratory will consist of learning from laboratory manual, anatomical model and digital A&P tools. (Students who received credit for EXSC 111 may not also receive credit for KIN 111.) (NS)

KIN 120 Theory and Practical Application of Health-Related Fitness (3)

Examines the scientific theory and practical application of the health-related components of physical fitness (i.e. cardiorespiratory endurance, muscular endurance, muscular strength, flexibility, body composition). Topics will include recent trends in group fitness programming and practical application of fitness to different populations and exercise settings. (Does not count toward the KIN major.) (Students who received credit for EXSC 120 may not also receive credit for KIN 120.)

KIN 149 Introduction to Kinesiology (3)

An introduction to the discipline of kinesiology, as well as the scientific application and professional practice within the sub-disciplines of motor behavior, exercise physiology, biomechanics, sport/exercise psychology, etc. (Students who received credit for EXSC 149 may not also receive credit for KIN 149.) (EXP)

KIN 151 First Aid and Sports Injuries (3)

Introduces first-aid measures for typical work, athletic and school situations. Provides skills and theory in athletic training topics through lab, observation and lecture. Covers injury prevention, injury evaluation, primary care, education and rehabilitation along with equipment use and counseling common to the athletic setting. Provides American Heart Association Heartsaver CPR certification. Additional lab fee applies. See College Costs section of current Catalog. (Students who received credit for EXSC 151 may not also receive credit for KIN 151.)

KIN 175 Fundamentals and Theory of Sport Skills (3)

An introduction to the latest information from exercise science that addresses teaching/coaching sport skills. Emphasis will be placed on knowledge of history, rules, general methods of play and strategy, as well as teaching methodology for each sport presented. Possible course topics include baseball, track & field, volleyball, soccer and football. (Students who received credit for EXSC 175 may not also receive credit for KIN 175.)

KIN 212 Adapted Physical Education (3)

Prerequisite: second-year standing. Considers developmental, remedial, and corrective programs in physical education; emphasizes adaptation to special needs beyond the regular physical education program. Requires participation in service learning to help students integrate course content with experience. (Students who received credit for EXSC 212 may not also receive credit for KIN 212.)

KIN 213 Principles of Coaching (3)

Prepares students for the problems, challenges, expectations and demands of coaching in several settings including high school, junior high school and other youth and recreational venues. (Students who received credit for EXSC 213 may not also receive credit for KIN 213.)

KIN 215 Introduction to Angling (3)

Prerequisite: instructor's permission. This course introduces the basic skills, theory and equipment necessary to begin the development of lifelong angling skills. Awareness of resource sustainability, environmental responsibility, water chemistry testing, stream/pond assessment and biological monitoring will be introduced. Biological data collection, analysis and submission to statewide database will be required. Other topics include fish characteristics (Biology), habitat design and building, knots, others determined by the class. A current Iowa fishing license is required. There is a lab fee. (Students who received credit for EXSC 215 may not also receive credit for KIN 215.) (GS)

KIN 220 Personal Wellness (3)

Prerequisite: second-year standing. Principles, concepts and evidence-based research related to understanding the concept of wellness and recognize the long term benefits of maintaining a high level of wellness in today's world. Emphasis on individual decision making, prevention strategies and personal conduct developed is emphasized. (Students who received credit for KIN 160/EXSC 160 may not also receive credit for KIN 220.)

KIN 254 Human Anatomy and Kinesiology with Lab (4)

Prerequisite: KIN 111. Examines the structure and function of the skeletal, muscular, and articular systems of the body. Includes one 90-minute lab per week. (Students who received credit for EXSC 254 may not also receive credit for KIN 254.)

KIN 257 Fitness Assessment and Exercise Prescription with Lab (4)

Prerequisite: KIN 111 and second-year standing. Assessment of physiological fitness levels and development of individualized exercise prescriptions. Includes one 75-minute lab per week. (Students who received credit for EXSC 257 may not also receive credit for KIN 257.)

KIN 260 Substance Abuse (3)

Studies the sociological, psychological and legal dimensions of alcohol and drug dependency. Focus on the interrelational nature of substance abuse in American culture. (Students who received credit for EXSC 260 may not also receive credit for KIN 260.)

KIN 261 Community, Consumer, and Global Health (3)

Reviews current and complex health issues within the perspective of global sustainability. Consumer, community and global health concepts, theories and models will be examined at the local, state, national and international levels. (Students who received credit for EXSC 261 may not also receive credit for KIN 261.) (GS)

KIN 283 Field Experience: Kinesiology (Arr)

Prerequisite: second-year standing and instructor's permission. A practical experience under the direct supervision of a certified individual. (Students who received credit for EXSC 283 may not also receive credit for KIN 283.)

KIN 330 Exercise Psychology (4)

Prerequisites: second-year standing and PSYC 122 recommended. Analysis of psychological theories for predicting health-based exercise behavior. The assessment of psychological and psychobiological responses to exercise will be distinguished for intervention use. Students will develop and predict psychological adherence interventions for increasing exercise participation. (Students who have received credit for KIN 230/EXSC 230 will not receive credit for KIN 330.)

KIN 334 Sports Nutrition (4)

Prerequisite: KIN 111 or BIOL 131, and third-year standing. An evaluation and application of human nutrition; interpretation of sports nutrition concepts, analysis of key nutrient functions, deficiencies, sources of and utilization of nutrients, theory of popular dietary plans and efficacy (Mediterranean, DASH, Paleo, Gluten Free). The mastery of the physiology as it relates to digestion and metabolism will also be examined. Assessment of nutrition principles to design specific dietary plans for athletes, chronic diseases, and weight management will be rated. Evaluation of sports nutrition principles to formulate an enhanced sports performance, including ergogenic aids will be discussed. Modification of optimal nutrition will be discussed and measured as the foundation for physical performance (aerobic & resistance). The interrelationships among intake, expenditure, performance, training, and maintenance of optimal health will be justified through current literature. Students will examine ingredients on labels (food & supplement) and judge media recommendations in nutrition. (Students who received credit for EXSC 334 may not also receive credit for KIN 334.)

KIN 358 Principles of Personal Training (3)

Prerequisite: KIN 257. Explains individualized fitness programs, business and legal issues for personal trainers and develops personality and communication attributes of trainers. (Students who received credit for EXSC 358 may not also receive credit for KIN 358.)

KIN 361 Biomechanics with Lab (4)

Prerequisite: KIN 254 and third-year standing. Synthesis of biology and mechanics that seeks to explain human movement in terms of space, time, direction and forces. Involves application of mechanics for the expressed purpose of analyzing/improving performance and locating the mechanical cause of faults observed in performance. Includes one 75 minute lab per week. (Students who received credit for EXSC 361 may not also receive credit for KIN 361.)

KIN 379 Epidemiology of Physical Activity (3)

Prerequisite: KIN 257 and third-year standing. Examines the relationship between an individual's physical activity and public health policy in terms of cost and effectiveness of combating various diseases and chronic conditions. Various methods for epidemiological assessment will be discussed as well as current research regarding physical activity, chronic disease risk factors, and the basis for public health policies. Recommendations for proactive physical activity following the American College of Sports Medicine's "Exercise is Medicine" model will be highlighted. (Students who received credit for EXSC 379 may not also receive credit for KIN 379.)

KIN 380 Worksite Program Planning and Evaluation (3)

Prerequisite: KIN 257 and third-year standing. Focuses on health promotion program planning, assessment, and evaluation procedures used in community and other settings with emphasis on health promotion program evaluation. Students will increase their knowledge of planning and evaluation theories, models, and implementation strategies for health promotion programs. Requires participation in service learning to help students integrate course content with experience. (Students who received credit for EXSC 380 may not also receive credit for KIN 380.)

KIN 394 Practicum in Personal Training (3)

Prerequisite: KIN 358. Senior level review of the business and operations of Personal Training. Extensive content in organization and administration of Personal Training programs. Discussions related to applications and concepts of Personal Training will be emphasized. Additional emphasis in exercise instruction will occur. During the semester the student will be supervised while working with personal training clients outside of class. The students will be expected to practice, demonstrate, refine, and apply competencies gained in previous classes. The student will also demonstrate appropriate communication skills with other professionals working with their clients.

KIN 432 Aging and Health (3)

Prerequisite: KIN 257. Presents information on the aging process and factors that influence health and independence from a holistic and multi-dimensional perspective. Students will learn appropriate assessment options and develop safe and effective activity programs for older adults. Requires participation in service learning to help students integrate course content with experience. (Students who received credit for EXSC 432 may not also receive credit for KIN 432.)

KIN 460 Exercise Physiology (3)

Prerequisite: KIN 254, KIN 257, and third-year standing. Examines principles of physiology involved with both the acute and chronic effects of exercise. (Students who received credit for EXSC 460 may not also receive credit for KIN 460.)

KIN 461 Exercise Physiology Lab (2)

Prerequisite or corequisite: KIN 460. A lab-oriented class that helps put exercise physiology theories into practice. (Students who received credit for EXSC 461 may not also receive credit for KIN 461.)

KIN 462 Motor Learning (3)

Prerequisite: third-year standing. Examines principles of skill acquisition related to motor skill performance; includes teaching and coaching methods through lecture and lab experiences. (Students who received credit for EXSC 462 may not also receive credit for KIN 462.)

KIN 397/497 Internship (Arr)

Prerequisite: departmental approval and instructor's permission. An applied experience in the major, requiring a minimum number of hours of work per credit hour. Includes conferences with the on-campus instructor and an evaluation by the job supervisor. Pass/No Credit basis. (Students who received credit for EXSC 397/497 may not also receive credit for KIN 397/497.)

Liberal Arts Seminar

LAS 110 Intersections (4)

Intersections is an interdisciplinary seminar that all first-year students take in the fall semester. It is an exploration of the "intersections" at which disciplines, ideas and events converge, connect and collide. All sections share a common topic and many common readings and experiences, while each instructor adds a unique emphasis. The contributions of varied fields – natural sciences, behavioral sciences, fine arts, humanities – are included. Students are introduced to college-level skills of reading, writing, speaking, listening, critical thinking and information literacy.

LAS 410 Liberal Arts Seminar (3)

Prerequisite: senior standing or instructor's permission. Explores a question or problem of significance using interdisciplinary approaches. Students will demonstrate their ability to engage in independent inquiry and persuasively communicate results. The course will show how knowledge, integrated and alive, informs our professional, civic and personal lives.

Approved Liberal Arts Seminar topics include:

- Americans in Paris (3)
- Behind Bars: Revealing Chocolate's Bitter Sweetness (3) (GS)
- Bob Dylan, American Bard (4)
- The Bowling League: An Inquiry into Disability in America (3)
- The Burden of Modern Disease: The Social, Cultural, and Economic Costs of Non-Communicable Disease (3) (GS)
- Citizenry: The Evolution of the Vote and Memory (4)
- Climate Change: North and South (4) (GS)
- Community in the Age of Climate Change (3) (GS)
- Communicating Participation: Political Engagement through Media (4)
- Constructing and Pursuing Happiness: Lessons from Science & Art (3)
- Disability in America (3)
- Disaster Movies: Hollywood and Science (3)
- Disease and Health Through Space and Time (3)
- The "Disney-fication" of Identities, Representations, and Development (4)
- Education Policy and Politics (3)
- Ethnobotany: How Plants Save the World (3) (GS, GPC)
- Exploring Ecotones of Literature, Science, and History (3) (GS)
- Exploring the Origins of Color (4) (GPN)
- Faith and the Search for Meaning (4) (GPN)
- Food and Justice (3) (GS)
- Food for Thought (4) (GS)
- The Future of the Past: Memory and Amnesia in Cultural Culture (3) (GPN)
- Interdisciplinary Perspectives on Inequality and Social Change (GS)
- Modern Board Game Studies: Immersion & Design (4)
- Mozart Opera and The Enlightenment (4)
- Natural Hazards and the Human Dimension (4) (GS)
- Peace, Justice and Social Change (4) (GS)
- Power and the Corrosion of the Moral Compass (3) (GPN)
- Rap, Hip-Hop, and Decolonizing the Classroom (4) (GS)
- Resilience: Sustaining Self and Community in the Age of Climate Change (3) (GS)
- Sport in America (3)
- War and Society (3)
- World History through a Glass (4)
- Where Science and Fiction Collide (3)

Mathematics

MATH 102 Contemporary Mathematics (3)

A non-technical survey of applications of contemporary mathematics, including topics such as networks, voting theory, probability, statistics and methods of counting. Explores the use of mathematics to better understand the world. Does not count toward the major. (MR)

MATH 105 Introduction to Statistics (4)

Prerequisite: Placement at the MATH 109 level or lower. An introduction to the basic statistical methods for collecting, organizing, displaying, and analyzing data, along with the basic statistical procedures for inference. No prior knowledge of statistics is assumed. Does not count toward the major. Students may not receive credit for both MATH 105 and MATH 215. Students completing MATH 131 or higher should take MATH 215. (MR, EXP)

MATH 109 Pre-Calculus (3)

Prerequisite: College Algebra or equivalent. Continuation of some college algebra topics and the study of functions, graphs, and their properties, including exponential, logarithmic and trigonometric functions. Does not count toward the major. (MR)

MATH 115 Mathematical Concepts I (3)

Prerequisite: EDUC 110, EDUC-135 or EDUC-181 and intended Elementary Education major. This course studies mathematical content needed for teaching elementary mathematics: problem solving, sets, functions, ratios, proportions, the properties of and operations on whole numbers, integers, fractions, decimals, rational and irrational numbers. Does not count toward the mathematics major. (MR, EXP)

MATH 116 Mathematical Concepts II (3)

Prerequisite: MATH-115. This course continues the introduction of the mathematical content needed for teaching elementary mathematics: algebraic thinking, data analysis, statistics, probability, measurement, geometry. Does not count toward the mathematics major. (MR, EXP)

MATH 131 Calculus I (4)

Prerequisite: usually, 4 years of college-bound mathematics or MATH 109. An introduction to differential calculus of functions of one variable. Covers concepts, mechanics, and applications of the derivative with an introduction to integral calculus. (MR, EXP)

MATH 132 Calculus II (4)

Prerequisite: MATH 131. An introduction to integral calculus of functions of one variable. Covers the definite integral, techniques of integration, and applications of the integral, as well as sequences, series, and polynomial approximations of functions. (MR, EXP)

MATH 160 Introductory Investigations in Mathematics (3)

An introduction to investigating mathematical topics of the student's choosing. The course will focus on the process of mathematical investigation while developing technical communication skills.

MATH 215 Applied Statistics (4)

Prerequisite: MATH 109 or placement at the MATH 131 level (or above), or instructor permission. Introduces fundamental concepts of methods of statistics. Key ideas to be studied include data collection strategies and their scope of conclusion, the role of randomness in collecting data and drawing conclusions, graphical and numerical summaries of data, assessing statistical significance and estimating with confidence. Students may not receive credit for both MATH 105 and MATH 215. (MR, EXP)

MATH 220 Discrete Mathematics (3)

Prerequisite: Second year standing. An introduction to the mathematical ideas commonly used in upper-level mathematics and computer science courses. Topics covered include propositional and predicate logic, recursion, induction, relations, functions, graphs, counting techniques, and discrete probability.

MATH 231 Multivariable Calculus (3)

Prerequisite: MATH 132. This course introduces the principles, methods and applications of calculus in three or more dimensions. (MR)

MATH 240 Linear Algebra (4)

Prerequisite: MATH 131. This course introduces matrices, vector spaces and linear mappings. (MR)

MATH 250 Differential Equations (3)

Prerequisite: MATH 132. Students learn to solve ordinary differential equations including systems. Students are introduced to numerical techniques and methods of qualitative analysis.

MATH 310 Geometry (3)

Prerequisite: MATH 220. Introduces students to the foundations of geometry. Studies geometric transformations, axiomatic systems for finite geometries and Euclidean geometry, synthetic geometry, hyperbolic geometry, and other geometries.

MATH 330 Mathematical Modeling (3)

Prerequisite: MATH 132 and COSC 110. Studies techniques for developing and interpreting mathematical models in several contexts such as: graphical models, proportionality, optimization, dynamic systems, probability, simulation and Markov processes.

MATH 341 Probability (3)

Prerequisite: MATH 132. This course introduces an axiomatic approach to probability, sample spaces and the study of distribution functions.

MATH 342 Statistics (3)

Prerequisite: MATH 341 (MATH 231 recommended). This course is about the study of distribution functions, estimation techniques and hypothesis testing.

MATH 350 Studies in Applied Mathematics: topic (3)

Prerequisite: MATH 220. The study of an applied mathematics topic. May be repeated with different topics.

MATH 390/490 Topics: Mathematics (Arr)

Various topics in mathematics can be studied depending upon the interest and demand shown by students. The student's transcript will indicate the topic studied.

MATH 450 Studies in Theoretical Mathematics: topic (3)

Prerequisite: MATH 220. The study of an advanced mathematics topic with an emphasis on definitions and proofs. May be repeated with different topics.

MATH 460 Advanced Investigations in Mathematics (3)

Prerequisite: MATH 220. Individual research in or investigation of an advanced mathematics topic of the student's choosing.

Music

MUS 105 Music Apps (3)

An introductory course designed for students who want to learn more about music theory through Popular music. By studying current trends in music, students will synthesize historical and current musical practices. Students will gain a basic knowledge of piano skills as well as the voice, ukulele, and composition practices. This is a course designed for non-majors as well as those considering a Music major, Music Education major, Musical Theatre major, or a Music minor. Effective note-taking strategies, quiz and test study habits, and chunking a final major assignment fulfill the additional EXP requirements. (ART, EXP)

MUS 111 American Pop Since 1960 (3)

This course explores the history of American popular music styles since approximately 1960. Genres included in this exploration are rock, R&B, country, hip-hop, dance, and pop. This course introduces students to critically thinking about music through historical and cultural perspectives as well as addresses foundational academic skills. (ART, EXP)

MUS 114 World Music (3)

Explores the music of world cultures that are not normally addressed in traditional western European-based courses in music. Includes music of India, Africa, Latin America, the Middle East and other world cultures. (ART, GPN, EXP)

MUS 120 Theory and Aural Skills I (4)

A study of the relationships of rhythm, harmony and melody. Class activities include writing and performing music, sight singing and exercises in keyboard harmony, score reading and ear training. (ART)

MUS 125 Theory and Aural Skills II (4)

Prerequisite: MUS 120. A continuation of MUS 120.

MUS 149 Instrumental Methods Percussion and String (1)

Prerequisite: second year standing. A basic methods course for prospective vocal music educators. Students learn to play the instruments in the percussion family and string family. Students learn basic techniques for teaching the instruments. Other information relating to effective teaching (e.g., history of the instruments, selection of instruments, repertoire) is also addressed. MUS 249 is offered jointly with MUS 149. Both courses cover the same topics, but with some separate assignments, sessions and expectations for advanced discussion and research in MUS 249. Students cannot receive credit for both MUS 149 and MUS 249.

MUS 150 Introduction to Music Education (1)

Prerequisite: Intended for first year students interested in music education. An introductory course to music education for prospective music education majors. Students will learn the historical and philosophical underpinnings to music education in America. Students will become acquainted with methods, tools, language, and literature in the music education profession.

MUS 151 Instrumental Methods Brass and Woodwinds (1)

Prerequisite: second year standing. A basic methods course for prospective vocal music educators. Students learn to play the instruments in the brass family and woodwind family. Students learn basic techniques for teaching the instruments. Other information relating to effective teaching (e.g., history of the instruments, selection of instruments, repertoire) is also addressed. MUS 251 is offered jointly with MUS 151. Both courses cover the same topics, but with some separate assignments, sessions, and expectations for advanced discussion and research in MUS 251. Students cannot receive credit for both MUS 151 and MUS 251.

MUS 211 History of Western Music: Antiquity to 1750 (3)

The development of Western music from pre-Christian antiquity to 1750, with emphasis on the Middle Ages, Renaissance, Baroque, and pre-Classical periods. Emphasis is also placed on listening to music for form and style. Completion of MUS 125 or equivalent musical preparation is strongly advised before taking this course. (ART, WRT)

MUS 215 Piano for Proficiency I (1)

Develops beginning sight-reading, score-reading, improvisation, accompanying, and harmonization skills necessary for achieving piano proficiency, required of all music and music education majors.

MUS 216 Piano for Proficiency II (1)

Builds upon skills covered in MUS 215, including: more advanced sight-reading, score-reading, improvisation, accompanying, and harmonization skills necessary for achieving piano proficiency, required of all music and music education majors.

MUS 220 Theory and Aural Skills III (4)

Prerequisite: MUS 125. A continuation of MUS 125. Students must concurrently enroll in MUS 215 Piano for Proficiency I unless exempted by proficiency exam.

MUS 228 Diction for Singers (2)

Focuses on the correct song pronunciation of the four major vocal solo and choral classic languages (English, French, German, and Italian). The course incorporates the International Phonetic Alphabet. It is required for all vocal music education majors and encouraged for all vocal performers and conductors.

MUS 231 Conducting (2)

Prerequisite: MUS 125. A study of fundamental conducting techniques, both choral and instrumental.

MUS 235 Theory and Aural Skills IV (4)

Prerequisite: MUS 220. A study of contemporary theory derived from jazz and popular music. Includes composition and improvisation in a variety of styles, as well as basic arranging techniques. Students must concurrently enroll in MUS 216 Piano for Proficiency II unless exempted by proficiency exam.

MUS 236 Show Choir and Jazz Choir Techniques (2)

Prerequisite: MUS 125 and admission to teacher education. Co- or prerequisite of MUS 231. Students will learn the fundamentals in terms of directing and managing both a show choir and a jazz choir. Implementation and observation of both kinds of ensembles will help to further facilitate the learning throughout the semester. Vocal music education students need to be well versed and trained to direct many different kinds of ensembles, including show choir and a jazz choir.

MUS 240 Music Technology (1)

An introduction to computer software available for the music idiom.

MUS 249 Instrumental Methods Percussion and String (2)

Prerequisite: second year standing. A basic methods course for prospective instrumental music educators. Students learn to play the instruments in the percussion family and string family. Student learn basic techniques for teaching the instruments. Other information relating to effective teaching (e.g., history of the instruments, selection of instruments, repertoire) is also addressed. MUS 249 is offered jointly with MUS 149. Both courses cover the same topics, but with some separate assignments, sessions and expectations for advanced discussion and research in MUS 249. Students cannot receive credit for both MUS 149 and MUS 249.

MUS 250 Instrumental Methods: Woodwinds (1)

Prerequisite: second year standing. A basic methods course for prospective instrumental music teachers. Students learn to play the instruments in the woodwind family and basic techniques for teaching the instruments. Other information relating to effective teaching (e.g., history of the instruments, selection of instruments, repertoire) is also addressed. Offered fall of odd-numbered years.

MUS 251 Instrumental Methods Brass and Woodwinds (2)

Prerequisite: second year standing. A basic methods course for prospective instrumental and vocal music educators. Students learn to play the instruments in the brass family and woodwind family. Students learn basic techniques for teaching the instruments. Other information relating to effective teaching (e.g., history of the instruments, selection of instruments, repertoire) is also addressed. MUS 251 is offered jointly with MUS 151. Both courses cover the same topics, but with some separate assignments, sessions and expectations for advanced discussion and research in MUS 251. Students cannot receive credit for both MUS 151 and MUS 251.

MUS 252 Instrumental Methods: Strings (1)

Prerequisite: second year standing. A basic methods course for prospective instrumental music teachers. Students learn to play the instruments in the string family and basic techniques for teaching the instruments. Other information relating to effective teaching (e.g., history of the instruments, selection of instruments, repertoire) is also addressed. Offered fall of even-numbered years.

MUS 255 Voice for Instrumental Music Majors (2)

Prerequisites: MUS 125 and admission to the Teacher Education Program. An introduction for instrumental music education majors to the teaching of singing. Topics include movement and the body; structure and function of the larynx and breathing apparatus; resonance and style; developmental factors; techniques for teaching good vocal production; guidelines for choosing repertoire at each point in the developmental spectrum. In class singing and role playing are integral. During the final six weeks of the course, students will take lessons from their counterparts in Voice Pedagogy with supervision and feedback.

MUS 258 Marching Band and Jazz Band Techniques (2)

Prerequisite: second year standing. Studies the materials, organization and methods for charting marching band shows and teaching improvisation to musicians in jazz programs. Offered fall or even- numbered years.

MUS 312 History of Western Music: Pre-Classical to Present (3)

The development of Western music from the pre-Classical era to the present day, including the Classical, Romantic, Late Romantic, and Modern eras. Emphasis is also placed on listening to music for form and style. This course provides the opportunity for students to research and present on selected topics from music of the 20th or 21st centuries. Completion of MUS 125 or equivalent musical preparation is strongly advised before taking this course. (ART, WRT)

MUS 313 Music History: 1940-Present (3)

Prerequisite: MUS 212. The development of Western music from 1940- present, with an emphasis on Modernist and Postmodernist approaches to musical composition. This course also provides the opportunity for upper-level music students to research and present on selected topics from the literature of genres such as orchestral, chamber, symphonic, concerto, art song, opera and oratorio. Completion of MUS 125 or equivalent musical preparation is strongly advised before taking this course.

MUS 332 Advanced Conducting (4)

Prerequisite MUS 231. Advanced Conducting focuses on four major pillars: 1. The art of conducting- expressive visual communication of musical ideas, 2. Leadership- effectively developing and maintaining a music program, 3. Rehearsal Methods, and 4. Music Ensemble Repertoire.

MUS 333 Advanced Instrumental Conducting and Methods (4)

Prerequisite: MUS 231. Examines the artistic nature of instrumental conducting and the methods for leading an effective band or orchestra programs. Emphasis is given to repertoire and stylistic considerations.

MUS 341 Voice Pedagogy (3)

Prerequisite: two semesters of MUSL 120, MUSL 220 or MUSL 320. An introduction for voice majors to the teaching of singing. Topics include movement and the body; structure and function of the larynx and breathing apparatus; resonance and style; developmental factors; techniques for teaching good vocal production; guidelines for choosing repertoire at each point in the developmental spectrum. In class singing and role playing are integral. During the final six weeks of the semester, students will give lessons to their counterparts in Vocal Methods with supervision and feedback. Offered spring semester of even-numbered years.

MUS 397/497 Internship (Arr)

Prerequisite: Departmental approval and instructor's approval. An applied experience in the major, requiring a minimum number of hours of work per credit hour. Includes conferences with the on-campus instructor and an evaluation by the job supervisor. Pass/No Credit basis. Offered on request.

MUS 499 Independent Study (Arr)

Prerequisite: instructor's permission. Research in approved topics. May be repeated on demand. Offered on request.

Music (groups/ensembles)

MUSG 220 Central College-Community Chorus (.5)

Prerequisite: instructor's permission. Students, faculty and local area vocalists are eligible for membership. Two concerts featuring major choral works are presented each year. (ART)

MUSG 222 A Cappella Choir (1)

Prerequisite: instructor's permission. Members are admitted after auditions at the discretion of the director. Repertoire includes works of many styles and periods. The choir sings on many occasions throughout the school year and makes a concert tour each spring. (ART)

MUSG 223 Symphonic Wind Ensemble (1)

Prerequisite: instructor's permission. The Symphonic Wind Ensemble is open to all students by audition. Emphasis is on the performance of quality wind band literature. Performances include on-campus concerts, a concert tour each spring and a concert preceding the annual commencement exercises in May. (ART)

MUSG 224 Central College-Community Orchestra (.5)

Prerequisite: instructor's permission. The orchestra includes students, faculty, local and area musicians and guest artists. Several concerts featuring a variety of excellent literature are performed throughout the school year. (ART)

MUSG 225 Jazz Ensemble (.5)

Prerequisite: instructor's permission. The group is organized to study and perform music of the American jazz idiom with emphasis on both individual improvisation and ensemble playing. Students are chosen by audition.

MUSG 226 Chamber Ensemble (.5)

Prerequisite: instructor's permission. Devoted to the study and performance of chamber music literature, the course culminates in a public, department-sponsored performance. Students are chosen by audition from members of the primary ensemble appropriate for their instrument.

MUSG 227 Chamber Singers (.5)

Prerequisite: instructor's permission. Concurrent enrollment in MUSG 223 Symphonic Wind Ensemble. Specializing in music for the small vocal ensemble, the group is chosen by audition from the A Cappella Choir membership. Performances include the spring tour, Christmas candlelight concerts, and occasional music theatre productions. (ART)

MUSG 229 Treble Clef Choir (.5)

Students will actively engage in choral music through sound technique, serious study of the varied repertoire and the development of artistic expression. Students will gain a stronger appreciation for the choral art and its relationship to the larger society. All students who can sing in the treble clef range are eligible for participation in the Treble Clef Choir. No audition is required. The ensemble will perform varied repertoire throughout the spring semester of the academic year. (ART)

MUSG 230 Flying Pans Steel Band (.5)

The Flying Pans Steel Band perform diverse styles of music from traditional Caribbean rhythms of calypso, soca and reggae to that of Classical Latin, disco, techno and rock. The steel drum ensemble presents a variety of concerts throughout the year, both on and off campus. All students are invited to participate. No audition required. (ART)

Music Lessons (private instruction)

MUSL 1xx Applied Study (1)

Beginning-level individual instruction in a performance area, 30 minutes per week for 13 weeks. At the instructor's discretion, small-group instruction may substitute. Attendance at Student Showcase Recitals (maximum of 2 per semester) is required; the instructor may also require participation in periodic studio classes.

MUSL 2xx Applied Study (1-2)

Prerequisite: instructor permission. Intermediate-level individual instruction in a performance area, 30 minutes (for 1 SH) or 60 minutes (for 2 SH) per week for 13 weeks. Students should enter with the ability to perform intermediate-level solo repertoire in the performance area. For voice study, music-reading ability sufficient to learn songs independently is also expected. Attendance at Student Showcase Recitals (maximum of 2 per semester) is required; the instructor may also require participation in periodic studio classes.

MUSL 3xx Applied Lessons (1-2)

Prerequisite: instructor permission, declared music major, and at least 2 semesters of study at the 100- and/or 200-level. Advanced-level individual instruction in a performance area, 30 minutes (for 1 SH) or 60 minutes (for 2 SH) per week for 13 weeks. Attendance at Student Showcase Recitals (maximum of 2 per semester) is required; the instructor may also require participation in periodic studio classes.

Musical Theatre

THEA 140 Introduction to Theatre (3)

Surveys the arts of the theatre with emphasis on the role of the playwright, director, actor, designer, and producer. Promotes the development of college-level writing, reading, listening, and speaking skills. (ART)

THEA 142 Introduction to Film (4)

Develops a greater understanding of and appreciation for the art and history of film as it examines contemporary American and international cinema in historical and cultural contexts. Enhances analytical skills to better understand filmmakers' intentions and how they are conveyed. (ART)

THEA 145 Introduction to Musical Theatre (3)

Over the course of the semester students will learn about musical theatre, a brief history of musical theatre and the elements of creating a musical theatre show. This includes script writing, producing, directing and choreographing, and the design areas. A course fee is attached to this course for attending a live musical in Des Moines at some point in the semester. Students are also required to attend a Theatre Central show during the semester. (ART, EXP)

THEA 150 Acting (3)

Examines the theories and practices of acting from a Western perspective. Students practice basic aesthetic judgments, professional ethics, and physical and vocal training through theatre games, improvisation and introduction to scene study. (ART, EXP)

THEA 151 Dance Fundamentals (1)

This course is designed to give the student the essential training in various dance techniques and an understanding of the structure behind their differences and similarities. Students will explore and experience various dance styles through in-class technical training and explore historical context and the artistic impacts in the Fine Arts.

THEA 161 Introduction to Theatrical Design (3)

An introduction to theatrical design concentrating on the creative process in developing the design of sets, lighting, costumes, as well as the presentation of design ideas. This course examines the role of the designer and how designs support the ideas of a play in visual ways. Promotes the development of college-level writing, reading, listening and speaking skills. Students with credit for THEA-173 may not also receive credit for THEA-161. (ART)

THEA 163 Stagecraft (4)

An introduction to the rudimentary skills involved with planning, constructing, painting, rigging and lighting of stage scenery. (EXP)

THEA 180 Theatre Practice (1)

This course is designed to allow students to gain practical rudimentary experience in theatre by working on a realized theatrical production.

THEA 240 Ancient to Medieval: Theatre History and Dramatic Literature (3)

Surveys the theatre history and dramatic literature of the ancient world through medieval times, with particular emphasis on the development of theatre and performance. Developments outside of western tradition are included. Promotes critical and analytical thinking and considers the place of performance in the historical political, social and aesthetic development of the world cultures. (HP)

THEA 241 Renaissance to Modernism: Theatre History and Dramatic Literature (3)

Surveys the theatre history and dramatic literature of the renaissance world through modern times, with particular emphasis on the development of theatre and performance. Developments outside of western tradition are included. Promotes critical and analytical thinking and considers the place of performance in the historical political, social and aesthetic development of the world cultures. Playwrights included in the course range from Machiavelli and Moliere to Strindberg and contemporary trends. (HP)

THEA 250 Musical Theatre History (3)

This course examines the history and evolution of Broadway musical theatre, one of America's great indigenous art forms. The course gives students the opportunity to evaluate and compare a variety of musicals from the nineteenth century to present-day Broadway musicals including minstrel shows, vaudeville, operetta, musical comedy, opera on Broadway and Rock Opera.

THEA 258 Directing I (4)

Prerequisite: THEA 150. This is an introductory course in play directing. The course utilizes background information of acting, stagecraft and lighting, and dramatic literature to provide the groundwork for the discussion of approaches to, and techniques of, play direction.

THEA 265 Entertainment Management (3)

Introduces students to the practice, realm and study of entertainment management in the commercial and non-commercial operations. This will include marketing/ public relations, financial management, development/ fund raising, operations/ facilities management, and personnel. Students will also learn about stage management; the process and responsibilities of stage management focusing on production duties, rehearsal responsibilities and production obligations.

THEA 266 Theatrical Makeup Design (3)

A laboratory- format course concentrating on the materials, skills and techniques used for applying theatrical makeup and designing makeup for the stage. Students will develop several makeup styles addressing challenges related to compensating for theatrical lighting, aging the youthful face, emphasizing character, effects and prosthetic techniques. (ART)

THEA 267 Digital Media and Design with the Arts (3)

This course aims to provide training in digital programs used in theatre design. Through a series of projects this course will explore a variety of digital tools and help students familiarize themselves with digital options for design renderings. (ART)

THEA 280 Advanced Theatre Practice (1)

This course is designed to allow students to gain practical advance experience in theatre by working on a realized theatrical production.

THEA 361 Designing for the Stage (4)

Over the course of the semester, you will learn about the four primary areas of theatre design and production; scenic design, lighting design, costume design and sound design. Through projects you will gain familiarity with each of these disciplines and design concepts. This course also covers the requirements for the core designation Arts. This will engage students in examining artistic expression within historical or cultural contexts, analytical approaches and hands-on experiences. (ART)

THEA 370 Script Analysis and Dramatic Literature (4)

Prerequisite: second-year standing. An interdisciplinary investigation of theatre and literature. Explores a variety of analytic methods for examining dramatic literature from both performance and design perspectives. Brief explorations of critical theory used to critique, analyze, and produce plays. (LP, WRT)

THEA 397 Internship in Theatre (Arr)

Prerequisite: 3.0 departmental GPA and instructor's permission. An applied experience in a communication and/or theatre-related setting requiring a minimum of 30 hours for each credit hour. Includes conferences with on-campus staff, portfolio of work performed and evaluation by job supervisor. May be repeated for a maximum of 10 credit hours applied to the major. Pass/No Credit basis.

THEA 485 Senior Seminar in Theatre (4)

Prerequisite: Declared theatre major and senior standing. Serves as a capstone to the Theatre major's undergraduate career and prepares them for transition into the professional theatre and/or graduate studies. The course may include lectures, workshops, professional guest speakers, discussion sessions and any other aspects related to the collaborative world of theatre. Students will complete various writing-intensive projects including resume building, portfolio constructing, career-based cover letters and a 5-8 page research paper based upon their individualized track in theatre.

THEA 499 Independent Study (Arr)

Prerequisite: instructor's permission. A course allowing students to probe more deeply into an area for which they have been prepared, but in which there are no further advanced courses offered. Prior to registration the student must present the proposed study to the department for approval. May be repeated.

Natural Science

NASC 110 Concepts in Natural Science with Lab (4)

Uses the processes of science to explore fundamental topics of physical, life and earth/space sciences and to examine the interactions among these sciences. Includes several laboratory exercises and demonstrations throughout the course. This course is intended for students seeking an elementary teaching license. (NS, EXP)

Philosophy

PHIL 120 Introduction to Philosophy (3)

Explores life's most fundamental questions by discussing classic texts from the history of philosophy. What does it mean to live a good life? Why is there evil in the world? Is there a God? Do we really know what we think we know? Students will try out their own answers to these questions and learn how to argue for those answers in writing and class discussion. (LP, EXP)

PHIL 121 Ethics (3)

What is the right thing to do? What makes an action right or wrong? And why should we think there is a right or wrong, anyway? Through this course, you will encounter and learn to analyze different ways to answer these questions, including the most historically relevant responses from Utilitarianism, Deontology, and Virtue Ethics; in the process, you will also learn to apply those answers to your own life and social experiences. (LP, EXP)

PHIL 125 Logic (3)

An introduction to logic, the art of evaluating arguments and reasoning correctly. Students will learn how to analyze the structure and language of arguments and use that analysis to distinguish good from bad arguments (logical fallacies). Designed to give students the tools to construct and critique arguments in whatever discipline or career path they choose. Covers both informal logic and the basics of symbolic logic (categorical and propositional). (MR)

PHIL 127 Meaning of Life (3)

We all want to live good lives, but how can we actually achieve that goal? This course provides an investigation into this question. Through the study of ancient and contemporary answers, students are challenged to examine their own assumptions and to develop their understanding of life's value based on logical reasoning and evidence. (LP, EXP)

PHIL 221 Classical Thought (4)

This course provides a survey of Western philosophy from Ancient Greece to the Middle Ages. We focus on Plato, Aristotle, and their inheritors, then we will see how these ancient ideas were understood by the medieval thinkers, Boethius and Aquinas. Our primary goal is to understand these authors in their own terms; but we will also be interested in thinking about how their ideas continue to influence us today. (LP, WRT)

PHIL 222 Modern Thought (4)

Focuses on the philosophical origins of our modern way of thinking-and reflects on its limitations. In the process, students will critically engage with some of the most important texts in the modern period of philosophy (c. 1600-1900). Key themes include: (1) technology and scientific progress, (2) individual freedom and subjectivity, and (3) secularism (the divide between religion and public life). What have we gained? What have we lost? (LP, WRT)

PHIL 223 Contemporary Philosophy (3)

An examination of recent thinkers and trends in philosophy. The philosophical schools and movements studied may include Existentialism, Pragmatism, Postmodernism, Deconstructionism, and Feminism. Topics will vary but may include the nature of the self, bases of ethics, and our relationship to society and God. At least one prior course in philosophy is recommended. (LP)

PHIL 240 Social and Political Philosophy (3)

This course allows students to address important questions about individual, social, and political relationships. Questions to be discussed may include: What makes a government legitimate? What rights and freedoms should a government protect, and what obligations, if any, does a citizen owe their government? How does an ever-increasing global awareness shape our responsibilities as citizens? And how ought we respond to injustice? (LP)

PHIL 244 Business Ethics (3)

Applied philosophy focusing on issues especially relevant to the business world such as affirmative action; product liability; obligations of advertisers; whistle-blowing; the social responsibility of business; privacy; sex discrimination.

PHIL 245 Environmental Ethics (4)

Examines a variety of moral and social issues regarding the relationship between human beings and non-human nature. Issues include the rights of non-humans, ecological obligations to future generations, the value of diversity of life, land use and vegetarianism, obligations to feed the world, and dominion vs. stewardship. (LP, GS)

PHIL 246 Biomedical Ethics (4)

This course offers a survey of the major ethical controversies in medical and other healthcare-related fields. Students will explore ethical challenges in medicine and encounter specific case studies that relate to concerns about balancing autonomy, beneficence, nonmaleficence, and justice. Some topics include whether a doctor can lie to her patient; whether children can give consent for medical treatment; whether parents can select for certain genes when reproducing; and whether anyone can ethically choose when and how they die. (LP)

PHIL 250 Technology and Society (4)

Explores philosophical questions related to technology, focusing on the connection between technology and human flourishing. Although the core approach is philosophical, the course also draws on a range of non-philosophical texts and media to give a fuller picture of technology in modern life. Topics include the nature and goals of technology, its potential downsides, and the relationship between technology and living meaningfully. The course also addresses ethical questions about AI and human enhancement. (LP, WRT)

PHIL 264 Theory of Knowledge (3)

This course is a philosophical investigation of the nature of knowledge and its various forms. Is real knowledge about the world possible? Can we know things in themselves or only how they appear to us? How does everyday knowledge differ from scientific or philosophical knowledge? Other topics include skepticism, relativism, and the relationship between knowledge and religious belief. (LP, WRT)

PHIL 270 Philosophy of Art (4)

A philosophical investigation of the nature of art and its role in human life. Special emphasis will be placed on music, painting, and Greek tragedy. Topics include the criteria for calling something art, the nature of aesthetic judgement, the source of artistic inspiration, and the relationship between art and contemplation. (LP, WRT)

PHIL 275 Memory and the Holocaust (4)

This course will take an interdisciplinary approach to questions about memory and the Holocaust. We will reflect on the philosophical significance of memory and apply our reflections to the history of the Holocaust and the process of its memorialization. We will also read Holocaust literature that raises ethical questions about how we remember. (LP, GPN, WRT)

PHIL 280 Plato (3)

This course will focus on Plato's philosophic and political thought, by discussing dialogues such as the *Gorgias* and the *Symposium*. (LP, WRT)

PHIL 282 C.S. Lewis (4)

This course will focus on the life and works of C.S. Lewis. Probably no Christian writer of the 20th century has been more influential than Lewis. His life, especially his adult conversion to Christianity and his late and tragically brief marriage to Joy Davidman, has provided material for several films and documentaries. His career as an apologist, armchair philosopher, and spokesperson for the Christian faith continues into the present. Even now, millions of copies of his books are sold each year. And his fiction, especially *The Screwtape Letters* and *The Chronicles of Narnia*, continues to be enormously popular. (LP, WRT)

PHIL 321 Advanced Classical Thought (4)

Prerequisite: One 100-level and one 200-level philosophy course. This is the advanced version of PHIL 221 Classical Thought, emphasizing deeper disciplinary understanding of Classical philosophy through advanced course readings and fewer, but more rigorous course assignments. This course is open to philosophy or religion majors and minors, or by instructor permission only. Students cannot receive credit for both PHIL 221 and PHIL 321. (WRT)

PHIL 323 Advanced Contemporary Philosophy (4)

Prerequisite: One 100- level and one 200- level philosophy course. Focuses on advanced readings by a selection of contemporary philosophers. The course will emphasize the development of the craft of philosophy through upper-level writing assignments and presentations.

PHIL 364 Advanced Theory of Knowledge (4)

Prerequisites: Minimum of one 100-level and one 200-level philosophy course. Focuses on advanced readings in epistemology. The course will emphasize the development of the craft of philosophy through upper-level writing assignments and presentations. (WRT)

PHIL 380 Advanced Plato (4)

Prerequisites: Minimum of one 100-level and one 200-level philosophy course. Focuses on advanced readings in the study of Plato's philosophy. The course will emphasize the development of the craft of philosophy through upper-level writing assignments and presentations.

PHIL 390 Topics in Philosophy (Arr)

Varying topics determined by the interests of students and the staff. May be repeated for credit.

PHIL 397/497 Internship (Arr)

Prerequisite: departmental approval and instructor approval. Applied experience in the major, requiring a minimum number of hours of work per credit hour. Includes conferences with the on-campus instructor and an evaluation by the job supervisor. Pass/No Credit basis.

PHIL 399 Independent Study (Arr)

Physics

PHYS 101 Introductory Physics I with Lab (4)

Prerequisite: high school algebra. A thorough basic course studying fundamental physics and laboratory techniques necessary for understanding science and its relation to everyday experiences. One three-hour lab per week. (NS)

PHYS 102 Introductory Physics II with Lab (4)

Prerequisite: PHYS 101. A continuation of PHYS 101. One three-hour lab per week. (NS)

PHYS 106 Introductory Astronomy (3)

Prerequisite: high school algebra. A descriptive course dealing with the celestial sphere, the solar system, stars and galaxies. It presents the astronomical phenomena of the universe in the context of physical science and examines related laws in the context of current issues in planetary and space sciences. This course is open to all students who desire a basic understanding of their astronomical environment. Of value to future teachers and anyone interested in how mathematics is integrated into science. Night viewing sessions are required. (NS)

PHYS 111 General Physics I with Lab (5)

Pre- or co-requisite: MATH 131. A thorough basic course in all major branches of classical physics with an emphasis on mathematical analysis. Designed for physics, chemistry, and engineering majors. Required for advanced physics courses. One three-hour lab per week. (NS, EXP)

PHYS 112 General Physics II with Lab (5)

Prerequisite: PHYS 111; Pre- or co-requisite: MATH 132. A continuation of PHYS 111. Designed for physics, chemistry, and engineering majors. Required for advanced physics courses. One three-hour lab per week. (NS)

PHYS 204 Energy and Environment (3)

Prerequisite: second-year standing. An examination of energy-related problems both ecological and social from a physical science perspective. Investigation is made of the historical origins of these problems, a description is given of the problems as they exist in various cultures today, and some policies of energy usage are examined, followed by a scenario of outcomes as a result of implementation of various policies. Emphasis is placed on the natural principles underlying the problems and evaluations of the problems in this light. Does not count toward the major. (NS, GS)

PHYS 215 Theoretical and Experimental Methods (2)

Prerequisites: PHYS 112 and MATH 231. Introduces students to various theoretical and experimental methods used in engineering and physics. Topics include theory of fields, curvilinear coordinates, tensors, spectral analysis, errors in experiments, and their propagation.

PHYS 216 Waves (2)

Prerequisite: PHYS 112. Physical concepts and mathematical relations describing wave phenomena in a variety of physical systems. Topics include oscillation in mechanical and electrical systems, mechanical and electromagnetic waves, and optics.

PHYS 225 Modern Physics I (3)

Prerequisite: PHYS 112. Special theory of relativity, quantization of electromagnetic waves and photons, wave properties of matter, structure of the atom, and introductory quantum mechanics. (NS)

PHYS 322 Optics (3)

Prerequisite: PHYS 112. Pre- or co-requisite: MATH 231 or instructor's permission. Light as an electromagnetic wave, propagation of light, geometrical optics, polarization, interference, diffraction, and their applications.

PHYS 325 Modern Physics II (3)

Prerequisite: PHYS 225. Continuation of PHYS 225. Applications of introductory quantum theory to the subjects of solid state physics and nuclear physics. An introduction to sub-atomic particles called quarks and leptons.

PHYS 331 Advanced Laboratories (2)

Pre- or co-requisites: PHYS 225 and third-year standing. A laboratory investigation of all major branches of physics with an emphasis on experimental design and procedures, precise data collection, quantitative data analysis, and professional written reports in a research atmosphere of independent thinking. Two semesters required for a major.

PHYS 412 Quantum Mechanics (4)

Prerequisite: PHYS 225. Pre- or co-requisite: MATH 231 or instructor permission. The Schrodinger equation, hydrogen atom, simple harmonic oscillator, expectation values, eigenvalues, eigenfunctions, operators.

PHYS 421 Electricity and Magnetism II (3)

Prerequisite: ENGR 321. A continuation of ENGR 321. Electric currents, electromagnetic induction, Maxwell's equations, energy, momentum and angular momentum of electromagnetic fields and their conservation, electromagnetic waves, fields of moving charges, and radiation of electromagnetic waves.

PHYS 397/497 Internship (Arr)

Prerequisite: departmental approval and instructor's permission. An applied experience in the major, requiring a minimum number of hours of work per credit hour. Includes conferences with the on-campus instructor and an evaluation by the job supervisor. Pass/No Credit basis.

Political Science

POLS 110 Introduction to American Politics (4)

An examination of political life in the United States with attention to the environment in which politics takes place and the traditional institutions that comprise the federal government. This course may be used for teacher certification. (SB)

POLS 140 Introduction to International Politics (4)

Basic survey of the contemporary international political system with emphasis on key concepts of power, sovereignty, and national interest; studies global patterns and trends in relations between major state and non-state actors. Special attention is devoted to sources and consequences of conflicts, global politics of transnational problems of environment, development, and international political economy. Promotes development of critical thinking, analytical reading and writing, research skills and collaborative learning. (SB, GPN, GS, EXP)

POLS 211 American Political Parties (4)

An examination of the American political party system and its many changes over the past 200+ years. Discussion will focus on the history of the party system, the role that political parties play in American democracy, and ways that the parties have adapted to the technological and legal challenges of the 21st century. (HP)

POLS 212 Congress (4)

An examination of parliamentary and legislative behavior focusing on the U.S. Congress. Discussion will focus on the implications of legislative behavior on the formation of public policy, why institutional rules and procedures matter, and how American political institutions help maintain our democratic form of government.

POLS 213 Courts (4)

An examination of judicial behavior focusing on the U.S. court system. Discussion will focus on the implications of judicial behavior on the formation of public policy, why institutional rules and procedures matter, and how American political institutions help maintain our democratic form of government.

POLS 214 The Presidency (4)

An examination of executive behavior focusing on the U.S. presidency. Discussion will focus on the implications of executive behavior on the formation of public policy, why institutional rules and procedures matter, and how American political institutions help maintain our democratic form of government.

POLS 215 The Politics of State and Local Governments (4)

An examination of government and politics at the state and local level. Topics covered will include state-level institutions and processes, local-level institutions and processes, urban politics, and Iowa politics. Emphasis will be placed on how state and local governments fit into the American political system.

POLS 216 Political Behavior: Political Participation, Elections, and Media (4)

An examination of the major topics in political behavior, including political participation, voting behavior, elections, and media. Discussion will be directed toward assessing the impact of the aforementioned upon the formation of public policy, implications for political institutions, and the maintenance of democratic government.

POLS 222 African Politics Since 1935 (3)

A comparative historical analysis of African countries' political institutions and processes, from the early nationalist period to the present. Special focus on political, economic, and foreign policy problems and strategies of independent African countries. (HP, GPN)

POLS 225 Modern Latin America (4)

A cross-national comparison of political, socioeconomic and cultural development in Latin America from 1870 to the present. Countries of focus are Brazil, Argentina, Chile, Mexico, and Cuba. Studies the cycles of dictatorship and democracy, economic boom and bust, and political and social economic liberalization since the mid-1980s. (HP, GPC, WRT)

POLS 231 The Middle East in World Affairs (4)

A comparative historical and institutional analysis of post-colonial foreign policies of selected state and non-state actors in the Middle East, including Israel, its Arab neighbors, and Iran. Special attention is given to the historical roots of major contemporary regional conflicts and domestic social, economic, political, and religious influences shaping contemporary external relations. (HP, GPN, WRT)

POLS 233 American Environmental Politics and Policy (4)

Investigates the political and public policy dimensions of major American environmental issues and problems from 1945 to the present. Identifies and analyzes major U.S. environmental actors, including industry groups, environmental NGOs, as well as major governmental actors and policy bodies in the environmental arena at the national state, and local levels. (GS)

POLS 235 The U.S. in World Affairs (4)

An examination of the historical evolution of major U.S. foreign policy-making institutions and processes, with emphasis on the post-1945 era. Analysis of guiding principles and patterns in U.S. foreign diplomatic, economic and military relations since 1898. (HP)

POLS 241 International Political Economy (4)

An introduction to the politics of international economic relations focused on finance, trade, development, security, migration, illicit markets and the key institutions involved in those areas. In addition to weekly assignments involving critical reading, viewing, writing and discussion, students complete a semester-long case study analysis on some topic of personal interest. The project involves evaluation of reliable, relevant primary and secondary sources and the application of a formal case study analysis framework. Final products of the project include a formal written report and oral presentation. (SB, GPN, WRT)

POLS 242 Global Sustainability Politics (4)

Prerequisite: second-year standing or instructor permission. A policy-oriented overview of selected global sustainability issues, problems, and solutions drawn from across the political, economic, and social justice realms. Examines roles of key international, governmental, and non-governmental actors. Emphasizes engaged citizenship at the local, national, and global levels. Opportunities for participation in campus and community outreach sustainability projects are included. (SB, GS)

POLS 249 Political Science Statistics (4)

Introduces students to statistical techniques used to explore and understand political phenomena. Students will learn how and when to use descriptive and inferential statistics ranging from measures of central tendency and dispersion to linear and logistic regression. Students will also learn how to use statistics software to aid in answering political science research questions. (MR)

POLS 250 Methods of Political Research (4)

Prerequisite: POLS-249. Students learn to define a research problem and to formulate and test hypotheses using a variety of methods. To successfully complete the course students must submit a proposal for a research project that includes a thorough literature review on a topic in political science, a set of well-formulated hypotheses based on the literature review, and a defensible research design to test those hypotheses with adequate data and appropriate methods. In addition, students will complete a one-hour lab component to learn the basics of applied statistical analysis in SPSS.

POLS 287 Presidential Inauguration Seminar (3)

Prerequisite: GPA of 2.5 or above. An examination of the inauguration and how new presidents operate during the early weeks of a new presidential administration. Discussion will be directed toward the outcome of the current presidential election and how it might impact American politics and policy. Course will be offered every fourth spring after a presidential election. Students must participate in The Washington Center's Inauguration Program prior to the semester beginning.

POLS 316 Presidential Elections (4)

Prerequisite: Second-year standing, third-year recommended. An examination of presidential elections. Discussion will be directed toward electoral processes, how voters make decisions in elections, and strategic campaigning by candidates, political parties, and other political actors. Course will be offered every fourth fall during a presidential election year. (SB)

POLS 326 Political Violence and Terrorism (4)

An inquiry into the causes of political violence and terrorism focused on theories of human nature and institutions. Causal explanations are evaluated against particular cases involving different types of political violence in different historical, cultural, and political contexts. In addition to weekly assignments requiring critical reading, viewing, writing and discussion, students complete a semester-long Event Structure Analysis (ESA) on some particular case of political violence. The ESA project involves evaluation of reliable, relevant primary and secondary sources and the application of a formal social sequence analysis framework. Final products of the project include a formal written report and oral presentation. (SB, GPC, WRT)

POLS 344 International Law and Human Rights (4)

A prior course in Political Science; POLS-140 strongly recommended. Examines major international legal principles and organizations in a changing global system. Special emphasis on evolution of human rights norms in a changing international order. Emphasis on the United Nations system, particularly peace and security and sustainable development functions. Examines the growing role of non-governmental organizations (NGOs) in world politics. (SB, WRT)

POLS 355 Seminar in Public Policy (3)

Examination of the formulation, implementation, and analysis of public policy in the United States. Discussion will focus on the implications of institutional behavior on the public policy process, the role of procedures and rules in the policy process, and the role of the policy-making process within our democratic form of government. In addition, students will gain firsthand experience in a particular policy domain through a service-learning experience.

POLS 361 American Political Philosophy (4)

An examination of the contribution of American thinkers to the literature of political philosophy. Emphasis will be upon the "founding fathers," but concern will be given to developing themes, ideas and topics relevant to citizens today. (LP)

POLS 390 Topics: Political Science (3)

Offered as needed to cover the interests of staff and students when these cannot be accommodated by regular offerings. The student's transcript will carry an indication of the topic pursued.

POLS 397 Internship: Political Science (Arr)

These are off-campus experiences designed to enrich a student's education through supervised practical experience in a civic, governmental, or business institution. Three structured programs are currently available: The Washington Center in Washington, D.C.; the Intern Program in Des Moines; and the Chicago Semester Program. Approved independent programs are also available. Unsupervised political activity does not qualify. Total credit for full time internship may not exceed 15 hours per semester; no more than 3 credits may count toward a major or minor in political science. Pass/No Credit basis.

POLS 399 Independent Study (Arr)

Offered on an individual basis to those students who demonstrate that their interest cannot be met by scheduled offerings. Students seeking to enroll must consult the staff member involved the semester beforehand and obtain approval of their projects.

POLS 489 Research Seminar (4)

Prerequisite: POLS 250, SOC 350 or ANTH 366. A senior capstone experience primarily for Political Science majors. Students work closely with the instructor in conceiving, executing, and communicating an original empirical research or civic engagement project on some topic or issue of personal interest. The final products include a long written project report and oral presentation to satisfy the political science department's major communication skills requirement.

Psychology

PSYC 122 General Psychology (3)

Surveys the field of psychology. Emphasizes the scientific study of behavior and mental processes and challenges students to critically analyze the major findings, theories and applications in areas such as sensation and perception; development, learning, memory and cognition; motivation and emotion; psychopathology and social psychology. (SB)

PSYC 175 Applied Social Psychology (3)

Prerequisite: PSYC 122. This class is intended for advanced first-year students. Humans are deeply social. This class will explore the ways we people understand and interact with one another in everyday life. Why do we obey people in authority? What are the roots of prejudice and how can we overcome them? Why do other people sometimes bring out our worst and other times bring out our best? We will address these questions and more as we apply social psychology to our everyday lives and hopefully learn something about what it means to be a person in the presence of other people.

PSYC 220 Psychological Investigations (4)

Prerequisite: PSYC 122 and second-year standing. Introduces students to major assumptions, values, and questions addressed by psychologists, and presents basic concepts and methods of psychological inquiry. Special emphasis is given to individual and class research projects, data analysis and research report writing. (WRT)

PSYC 225 Psychology of Personality (3)

Prerequisite: PSYC-122 and second-year standing, or instructor's permission. The scientific study of the origins and effects of individual differences in thought, emotion, and behavior. Topics covered include current topics in personality research, theoretical perspectives, and assessment techniques.

PSYC 231 Psychopathology (3)

Prerequisite: second-year standing and PSYC 122. Surveys psychological disorders and abnormal behaviors including symptoms, causes and treatments. Integrates biological, psychological, and social influences. Introduces diagnostic criteria for major disorders.

PSYC 240 Psychology of Gender (3)

Prerequisite: PSYC 122 and second-year standing, or instructor's permission. This course explores psychological research and theory related to gender, with a particular focus on the ways in which gender influences men's and women's daily lives. Attention is given to the biological, cognitive, and psychosocial changes in sex and gender across the life-span. Topics include the effects of parents, peers, school, work, and health as they shape gender identity. Throughout the course, we will examine how gender can be studied using empirical research methods and emphasize the importance of identity, sexual orientation, culture, and social class in understanding gender. (GPC)

PSYC 250 Stress and Health (3)

Prerequisite: second-year standing and PSYC 122 or instructor's permission. Examines how biological, psychological, and social factors interact with and affect physical and emotional wellbeing. Special emphasis will be placed on the role that stress plays in health. Students will learn about these complex relationships and how to apply this knowledge to real-world situations, including their own health behaviors.

PSYC 277 Clinical Neuroscience (3)

Prerequisite: PSYC 122 and second-year standing. Clinical neuroscience focuses on the neurological underpinnings of psychological disorders and diseases of the central and peripheral nervous system. The course will explore a wide variety of topics including addiction, autism spectrum disorders, borderline and antisocial personality disorders, obsessive compulsive disorder, schizophrenia, dementia, affective disorders, neurodegenerative diseases, and neuropsychological assessment. Students may not receive credit for both PSYC 277 and PSYC 477.

PSYC 278 Forensic Neuroscience (3)

Prerequisite: PSYC 122 and second-year standing. Advances in psychology and neuroscience techniques and imaging have required the judicial system to reconsider the role that behavioral science plays in courtroom decision-making. In Forensic Neuroscience, students will learn the applications of psychology and neuroscience to the judicial system while interpreting evidence in past criminal trials or mock courtroom settings. The course will explore a wide variety of topics including the neurological underpinnings of eye witness memory, jury selection, battered woman syndrome, the insanity plea, competency to stand trial and the criminal mind. Students may not receive credit for both PSYC 278 and PSYC 478.

PSYC 279 Social, Affective, and Developmental Neuroscience (3)

Prerequisite: PSYC 122 and second-year standing. Social, affective and developmental neuroscience focuses on the neurological underpinnings of emotion, social interaction and development. The course will explore a wide variety of topics including the neuroscience of empathy, religious and political affiliation, love, language development and developmental disorders such as autism and dyslexia. Students may not receive credit for both PSYC 279 and PSYC 479.

PSYC 330 Multicultural Issues in Psychology (3)

Prerequisite: PSYC 122 and third-year standing, or instructor's permission. This course will introduce and familiarize students with the concept of multicultural issues in the field of psychology. The concept of "culture" will be viewed broadly, not only encompassing issues of race and ethnicity, but also gender, age, sexual orientation, religion, socio-economic status, immigration status, personal interests and attitudes as well as ability and disability. The course will examine various issues through a multicultural lens including education, communication, research, testing, prejudice, identity development, health, and acculturation. (GPC)

PSYC 335 Fundamentals of Statistics (4)

Introduces students to the statistical techniques typically used in psychology, sociology, education, communication and related areas. Topics and procedures include: grouping, graphical representation of data, measures of central tendency and variability effect size, probability, hypothesis testing, correlation, tests of differences, several models of analysis of variance and nonparametric alternatives, including chi square. (MR)

PSYC 336 SPSS for Psychological Research (1)

Corequisite: concurrent enrollment in PSYC 480. Students learn how to use the Statistical Package for the Social Sciences (SPSS) to input data, save and retrieve data, make data transformation, conduct analyses, manipulate and understand output, and create and edit graphs. Pass/No Credit basis.

PSYC 340 Cognitive Psychology (3)

Prerequisite: PSYC 122. Introduces students to the theories and methods of cognitive psychology and cognitive science. Topics include attention, perception, memory, language, knowledge representation, problem solving, computer modeling and everyday cognition.

PSYC 348 Experimental Psychology (4)

Prerequisite: third-year standing or instructor's permission, PSYC 220 and previous or concurrent enrollment in PSYC 335, or instructor's permission. Covers basic principles of research design with a focus on experimentation. Surveys theory and research in various domains of experimental psychology, including perception, learning, memory, problem solving, social influences, individual differences, development, environmental psychology and human factors.

PSYC 382 Child & Adolescent Development (3)

Prerequisite: third-year standing or instructor's permission and PSYC 122. Covers theory and research on physical, cognitive, social, and emotional development from conception through adolescence. Requires participation in service-learning to help students integrate course content with experience. A student cannot receive credit for both EDUC 270 and PSYC 382.

PSYC 384 Adult Development & Aging (3)

Prerequisite: third-year standing or instructor's permission and PSYC 122. Covers theory and research on physical, cognitive, social, and identity development from early through late adulthood. Includes issues related to work, family, relationships, sexuality, death and grieving, and social policy.

PSYC 385 Principles of Counseling (3)

Prerequisite: PSYC 122 and third-year standing or instructor's permission. This course examines major counseling theories and the process of therapy. Students learn the basic techniques of counseling and engage in practicing their skills in the role of a counselor. Students also explore professional identities in the helping field broadly, particularly within counseling. Throughout the semester, students consider their own personality, beliefs, culture, and experiences and how they influence their perceptions of the counseling process.

PSYC 397 Internship: Psychology (Arr)

Prerequisite: third-year standing and instructor's permission. Students work under professional supervision in a situation involving application of psychological principles. Emphasis is on learning by observing and practicing. Amount of credit is determined according to the extent of the experiences, not to exceed 6 credits in the 35 credit minimum. Students considering an internship should confer with the department to receive consultation and guidelines. Pass/No Credit basis.

PSYC 427 Memory (4)

Prerequisite: PSYC 122 and third-year standing. This seminar style course focuses on the topic of human memory and its application to real-world problems. After defining memory and reviewing the major theoretical perspectives on memory, students will explore stress and its impact on memory, the impact of healthy and abnormal aging on memory, false memory, confabulation, eyewitness memory, amnesias, the recovered memory controversy, forgetting and extraordinary memory.

PSYC 468 Social Cognition (4)

Prerequisite: Third-or fourth-year standing and at least two 200-level psychology courses or instructor permission. Explore social-cognitive processing or thinking in social contexts. Topics include stereotyping, memory, social judgment, and using knowledge about others in social interactions. Students will explore these topics, read original empirical research and theoretical papers, and consider research methods used to investigate these phenomena. Additionally, we will examine how social cognition has been influenced by cognitive, social, and developmental psychology.

PSYC 477 Clinical Neuroscience (3)

Prerequisite: PSYC 122 and senior standing. Clinical neuroscience focuses on the neurological underpinnings of psychological disorders and diseases of the central and peripheral nervous system. The course will explore a wide variety of topics including addiction, autism spectrum disorders, borderline and antisocial personality disorders, obsessive compulsive disorder, schizophrenia, dementia, affective disorders, neurodegenerative diseases, and neuropsychological assessment. Students may not receive credit for both PSYC 277 and PSYC 477.

PSYC 478 Forensic Neuroscience (3)

Prerequisite: PSYC 122 and senior standing. Advances in psychology and neuroscience techniques and imaging have required the judicial system to reconsider the role that behavioral science plays in courtroom decision-making. In Forensic Neuroscience, students will learn the applications of psychology and neuroscience to the judicial system while interpreting evidence in past criminal trials or mock courtroom settings. The course will explore a wide variety of topics including the neurological underpinnings of eye witness memory, jury selection, battered woman syndrome, the insanity plea, competency to stand trial and the criminal mind. Students may not receive credit for both PSYC 278 and PSYC 478.

PSYC 479 Social, Affective, and Developmental Neuroscience (3)

Prerequisite: PSYC 122 and senior standing. Social, affective and developmental neuroscience focuses on the neurological underpinnings of emotion, social interaction and development. The course will explore a wide variety of topics including the neuroscience of empathy, religious and political affiliation, love, language development and developmental disorders such as autism and dyslexia. Students may not receive credit for both PSYC 279 and PSYC 479.

PSYC 480 Advanced Research in Psychology (4)

Prerequisite: PSYC 335, PSYC 348 or instructor's permission. Students design and implement individual research projects on cognitive, cultural, developmental, personality, gender, multicultural or social psychology topics. As part of this capstone research experience, students collect and analyze data, and present research results both orally and as manuscripts written in accordance with American Psychological Association standards. This course may be repeated. (WRT)

PSYC 486 Psychological Tests and Assessment (4)

Prerequisite: Senior standing, PSYC 335 or comparable background in statistics, or instructor's permission. Studies basic psychometric principles, including reliability, validity and score interpretation. Considers tests of intelligence, creativity, interest and personality in an assessment context.

PSYC 199, PSYC 299, PSYC 399, PSYC 499 Independent Study (Arr)

Permission must be secured prior to registration. Designed to permit students to pursue individual interests in specialized area of psychology to supplement scheduled course offerings.

Religion

REL 110 Old Testament History and Religion (3)

Examines the Old Testament/Hebrew Bible in its original ancient Near Eastern cultural and historical context as a library of theological literature. Considers the modern relevance of the Old Testament as scripture for Christianity and Judaism as well as theological questions arising from the Scriptural texts. Develops critical reading and listening abilities, writing skills and verbal self-expression. (REL, EXP)

REL 111 Introduction to the New Testament (3)

A study of the New Testament within its literary, cultural and canonical context in order to understand its central theological teachings. (REL)

REL 135 Islam (3)

General introduction to Islam dealing with three main topics: (a) the life of Muhammad and the origins of Islam; (b) the diversity of Muslim religious beliefs and cultural forms throughout Islamic history to the present; (c) an introduction to Islamic texts, including the Qur'an, legal interpretation, theology, and philosophy, especially in Classical or Medieval period. (REL, GPN, EXP)

REL 150 The Christian Heritage (3)

The Christian Heritage introduces students to Christian thought in its historical development. The course examines various historical contexts, from Late Antiquity to the present, and explores their distinct influences on the shaping of the Christian faith. While focusing on the historical particulars of Christian thought, the course locates the universal elements shared by different Christian traditions. (REL, EXP)

REL 210 The Prophets (3)

Studies selected passages from the second division of the Old Testament (Tanakh in Judaism), consisting of Joshua through II Kings, Isaiah, Jeremiah, Ezekiel and the Twelve Minor Prophets. Through a careful study of selected texts, the course explores the significance of these books for an understanding of the history of ancient Israel and for the history and teachings of Judaism and Christianity. (REL, WRT)

REL 211 The Writings (3)

Studies selected passages from the third division of the Old Testament (Tanakh in Judaism), consisting of the books of Job, Psalms, Proverbs, Ecclesiastes, Song of Songs, Ruth, Lamentations, Esther, Daniel, Ezra, Nehemiah, and I and II Chronicles. Through careful study of selected texts, the course explores the purposes of this diverse material for an understanding of Biblical history and religion. (REL, WRT)

REL 216 Jesus and the Gospels (3)

Introduces students to the modern Christian perspectives on Jesus, studies the traditions about Jesus in the pre-gospel period, the portrayals of Jesus and salvation in the New Testament gospels, and the modern so-called "quest for the historical Jesus". (REL)

REL 218 Pauline Epistles (3)

Examines the epistles of the apostle Paul in their historical and religious contexts. Among the topics treated are: the "historical" Paul, to the extent that this can be constructed from the available sources, the structure and theology of the Pauline and deutero-Pauline epistles, the influence and image of Paul in early Christianity, and contemporary controversies and issues in the study of Paul. (REL)

REL 220 Christian Worship (3)

Introduces the student to the origins and history of Christian worship from the Old Testament period to the present. Examines various aspects of worship, including orders of service, church architecture and music, reflecting on their historical and theological dimensions. Includes field trips to observe religious services. (REL, WRT)

REL 233 Judaism (3)

Studies the history and teachings of Judaism from its formative texts in the Mosaic Law and in the Targums and Talmuds of the Rabbinical schools through to the Medieval and Modern periods. The emphasis is on primary texts of the Classical tradition as well as writers such as Saadya Gaon and Maimonides. Students will be introduced to modern variations within Judaism, including the formation of Zionism. (REL)

REL 236 Islamic Law, Theology, and Philosophy (3)

Studies the religion of Islam from its beginnings to Modern times with particular interest in the emergence of schools of law, theology, and philosophy in both Eastern and Western Islam. Explores the religious, political, scientific, and philosophical aspects of the formative texts and thinkers of medieval Islam as a context for understanding the relation of Islamic political philosophy to modern political thought. (REL, GPN)

REL 238 Taoism and Confucianism (4)

This course examines ideas and practices of Taoism and Confucianism. It explores how these two schools of thought have sought out meaning in their respective understandings of ultimate reality and how the latter translate to everyday living. Students will gain knowledge in historical, religio-philosophical, and cultural contexts of Taoism and Confucianism. Students will speak and write competently about theological and ethical problematics of the two traditions. The course will seek to foster students' appreciation for the oriental schools of thought. (REL, GPN, WRT)

REL 252 The Reformation (3)

Studies the religious movements in 16th-century Europe that shaped modern Protestantism and Catholicism. Religious ideas will be examined in relation to their political, social and intellectual setting, as well as to the broader Christian tradition. (REL)

REL 254 The Early Church (4)

Studies the history of the early church within the context of ancient Judaism and the Roman Empire through the middle of the fifth century A.D. Particular attention is given to the development of a Christian "orthodoxy" from the diversity of early Christian thought. (REL, WRT)

REL 265 Religion and Sustainability (3)

Examines how religious worldviews and practices can be both promising and problematic in meeting the challenge of sustainability. The course introduces key concepts and methods in the academic study of religion and sustainability, applying these to case studies representing a diversity of local and global religious cultures, and a variety of sustainability issues. Students in the course will have opportunities to engage with these issues through readings and discussions, independent research projects, and ethnographies of religious communities. (REL,GS)

REL 274 World Christianity (4)

Examines the encounters of the church with new cultures and civilizations, especially during critical periods of expansion and adaptation. Considers issues faced by contemporary Christianity in non-Western settings: missions, relations with indigenous religions, inculturation, religious pluralism, and political participation. (REL, GPN, WRT, EXP)

REL 285 The Pre-Ministerial Seminar (Arr)

Prerequisite: one course in religion at the 100-level and instructor's permission. An introduction to the pre-ministerial program will be taught and coordinated by the director. The seminar is designed to introduce students to the wide variety of types of ministry and is taught by people working as professionals in the various fields of ministry.

REL 310 Readings in The Prophets (4)

Prerequisite: instructor's permission. Offered jointly with REL 210 and covering the same topics, but with some separate assignments, sessions and expectations for advanced discussion and research. Students cannot receive credit for both REL 210 and REL 310. (REL, WRT)

REL 316 Readings in Jesus and the Gospels (4)

Prerequisite: instructor's permission. Offered jointly with REL 216 and covering the same topics, but with some separate assignments, session and expectations for advanced discussion and research. Students cannot receive credit for both REL 216 and REL 316. (REL)

REL 325 History of Spirituality in the Christian Tradition (4)

History of Spirituality in the Christian Tradition examines Christian spirituality in historical perspective. The course studies the development of Christian spirituality over time and considers how works of Christian spirituality were created and what influences shaped their creation. The course also explores the study of spirituality as a discipline with a distinct body of forms, texts, and topics, with its own schools and forms of transmission. As such, spirituality is examined in an interdisciplinary fashion, integrating critical historical research, theology, anthropology, psychology, and sociology (REL, WRT)

REL 335 Readings in Islam (4)

Prerequisite: instructor's permission. Offered jointly with REL 135 and covering the same topics, but with some separate assignments, sessions and expectations for advanced discussion and research. Students cannot receive credit for both REL 135 and REL 335. (REL, GPN, WRT)

REL 336 Readings in Islamic Law, Theology, and Philosophy (4)

Prerequisite: Instructor permission. Offered jointly with REL 236 and covering the same topics, but with some separate assignments, sessions, and expectations for advanced discussion and research. Students cannot receive credit for both REL 236 and REL 336. (REL, GPN, WRT)

REL 390 Topics in Religious Studies (Arr)

Varying topics determined by the interests of students and the staff. May be repeated for credit.

REL 397 The Ministry Internship (Arr)

Prerequisite: two courses in religion with at least one at the 200-300 level and instructor's permission. The ministry internship is a supervised work experience that exposes the student to some aspect of ministry. Ideally it occurs in the summer between the third and fourth years, or perhaps a weekend assignment during a semester. The internship gives the student on-the-job experience in the area of service interest, under the supervision of an established minister, who works closely with the preministerial program director on campus. Pass/No Credit basis.

REL 497 Internship in Religion (Arr)

Prerequisite: instructor's permission. The internship provides an opportunity for the student to explore a career option in the major field of study. Pass/No Credit basis.

Service Learning Module

XXXX-283/XXXX-383 Service Learning Module (1-3)

Provides individualized (200 or 300 level) academic service-learning activity focused on a specific field of study in collaboration with an approved community partner. The registration process involves preparation and approval of a proposal in consultation with a faculty member and the director of CCBL. Typically, students will receive credit in the department of the faculty member. Requirements include: a minimum of 2 hours of service per week for every semester hour of credit earned; pre-experience readings; participation in CCBL reflection series; a final product, and participation in the CCBL Symposium at the conclusion of the semester. Pass/No Credit. May be repeated.

Sociology

SOC 120 Principles of Sociology (3)

Presents key basic concepts and principles of the discipline. Designed to introduce students to how sociologists use these tools to analyze society, including social and cultural change. (SB, GPC, EXP)

SOC 225 Social Problems (3)

Prerequisite: SOC 120 or instructor's permission. Explores contemporary social issues, such as poverty, race, gender, including analysis of the breadth and depth of the problems, the causes of the problems and some potential responses to them. The focus is on understanding the dimensions of the problems that can then be used to analyze and critique contemporary society.

SOC 235 Schools and Societies (3)

Prerequisites SOC 120 or EDUC 110. Designed to provide an overview of sociological theories that examine education in modern societies. Utilizing a global, comparative approach, the course investigates topics such as: the historical origins of schooling and education systems; the effects of school characteristics on student achievement and educational attainment; education and inequality; cross-national differences in educational systems; the organizational characteristics of schooling; and prospects for school reform. Discussion of research in these areas helps to dispel myths about formal education and provide a sense of the powerful impact -- and also the limitations -- of schools in modern societies. (SB, GPN)

SOC 241 Criminology (3)

Prerequisite: SOC 120. Criminology is designed to provide an overview of sociological and criminological theories that explain crime and deviance in the contemporary period. In addition, we examine the consequences and patterning of crime, and analyze the criminal justice system and corrections policies. (SB)

SOC 242 Sociology of the Family (3)

Prerequisite: SOC 120 or instructor's permission. Examines the interaction of family with conditions and structures in society. Surveys the social history of the family and examines factors bringing about changes. Explores some contemporary family topics and looks at available alternatives. (SB)

SOC 248 Statistics for Sociologists (4)

Pre-requisites: SOC 120 and a declared sociology or anthropology major or minor. Serves as an introduction to statistical analysis used in sociological research. Explores how and when to use descriptive statistics, including measures of central tendency and dispersion, inferential statistics, including analysis of variance and chi-square, bivariate analysis, including nominal, ordinal, and interval-ratio level variables, and multivariate analysis. We will pay particular attention to how these techniques serve as tools to help provide answers to sociological questions. (MR)

SOC 250 Introduction to Social Work (3)

Prerequisite: SOC 120 or instructor's permission. Provides an overview of the applied field of social work. Explores the various theories and approaches used by social workers to help improve the quality of their clients' lives. Highlights the range of human service organizations operating in today's society.

SOC 320 Sociology of Gender (4)

Prerequisite: SOC 120 or equivalent. Examines ways in which society and culture shape gender expectations. Focuses on the impact of gender on identity, life-long socialization, work and violence. Also covers the dynamics of race and gender.

SOC 333 Sociology of Popular Culture (3)

Prerequisite: SOC 120 and second-year standing. Popular culture has become a taken-for-granted part of our everyday lives. Using tools sociology provides, we will examine its production, consumption, expansion, and impact. Topics explored may include the relationship between popular culture and social order, norms, identity, taste, persuasion, and propaganda.

SOC 335 Globalization and Development (4)

Prerequisite SOC 120. Explores historical and contemporary processes that are leading to greater cultural, economic, and political interconnectedness at individual, local, and national levels. A central goal of the course is to clarify what is meant by the ideas "globalization" and "development" and to better understand how and to what extent these forces affect societies and individuals around the world. Provides an overview of globalization and development drawing on theoretical ideas from sociology and related fields. (GPN, GS)

SOC 336 Status and Inequality in Social Life (4)

Prerequisite: SOC 120 or instructor's permission. An examination of the distribution of economic, social and cultural resources such as income, wealth, education, social networks, etc. The analysis will include how possession of such resources determines status in society, including both opportunities for and obstacles to social mobility.

SOC 340 Sociology of Sport (3)

Prerequisite: SOC 120 and second-year standing. Sport in the United States pervades social institutions throughout society, including family, education, economy, and government. This course focuses on sport – from youth sports to the professional level – as a social and cultural phenomenon utilizing sociological concepts to analyze the influence sport has on individuals and society. Particular attention will also be paid to issues of race, gender, and class as they relate to sport.

SOC 342 Sociology of Religion (3)

Prerequisite: SOC 120 or instructor's permission. Examines the impact that religious belief and practice have upon contemporary life in the U.S. and abroad. The course also investigates how religious institutions are affected by other forms of social life. Offered alternate years.

SOC 346 American Ethnicity (4)

Prerequisite: SOC 120 and second-year standing. Explores the meaning and consequences of race and ethnicity in the United States. Explores how race and ethnicity are impacted by social, structural, and historical changes in society. Gives special attention to theories utilized by sociologists to explain demographic and social trends related to race. (GPC)

SOC 350 Methods of Social Research (4)

Prerequisite: SOC 248 (or its equivalent); SOC 120 or instructor's permission. Focuses on the major consecutive steps involved in a scientific inquiry into social relations, and, in addition, deals with problems particularly characteristic of social scientific research. Special emphasis on group research projects, questionnaire construction, data analysis and data presentation. (WRT)

SOC 397 Internship: Sociology (Arr)

Prerequisite: instructor's permission. Students will work under supervision of professionals in one of several areas, e.g., corrections, social work, hospital, school, adoption agency, etc. for a semester. Focus will be on learning by observing and practicing. Pass/No Credit basis.

SOC 450 Sociological Theory (4)

Prerequisite: five courses in the department. Provides analysis of sociology's major theorists with an emphasis on classic works, such as those by Marx, Weber, Durkheim, Cooley, Mead, and others. The goal will be on both learning the content of various theoretical perspectives and on application of such models to critique contemporary society.

SOC 485 Senior Seminar (4)

Prerequisite SOC 450. A capstone course where students integrate and assess acquired sociological knowledge through applied research, guided discussion, and written analysis. In addition, students will prepare for their transition from college to professional life by investigating prospective post-graduate educational and career paths and produce documents (e.g., resume, cover letter, statement of purpose, etc.) relevant to each of these paths. (WRT)

Spanish

Note: Courses offered by the department of modern languages are calibrated to the nationally recognized target levels of proficiency defined by the American Council on the Teaching of Foreign Languages. Details are available from the department.

SPAN 121 Beginning Spanish I (4)

Includes essential grammar and vocabulary. Foundation for the development of listening comprehension, conversation, reading and cross-cultural skills at the equivalent of the novice low to mid-level of the ACTFL scale.

SPAN 122 Beginning Spanish II (4)

Prerequisite: SPAN 121, placement or equivalent. Includes essential grammar and vocabulary. Foundation for the development of listening comprehension, conversation, reading and cross-cultural skills at the equivalent of the novice high to mid-level of the ACTFL scale.

SPAN X60 Language and Culture: [Location] (1-4)

Prerequisite: Instructor determines placement level. This course involves a short-term, faculty-led study experience in a Spanish-speaking community and can be taken for variable credit (to be determined by the instructor). The course level is at the discretion of the instructor and is also dependent on language placement.

SPAN 212 Language and Culture in the Yucatan Peninsula (1)

Pre- or Co-requisite: SPAN-122 (or higher) or placement in SPAN-221 or higher. Explores the relationship between language and culture through readings and class discussions on the many cultural traditions and practices of this region. Students will be afforded many opportunities for experiential learning by engaging with local Spanish speaking communities, both here and abroad, providing a real-life context for students to practice their language skills and reflect on these intercultural exchanges. Students enrolled in this course will participate in a mandatory short-term study abroad experience in Merida, Mexico.

SPAN 221 Intermediate Spanish I (4)

Prerequisite: successful completion of SPAN 122 or equivalent or placement. Continues development of reading, writing, speaking and listening comprehension skills, with particular emphasis on the development of oral proficiency at the equivalent of intermediate low to mid level. Includes an introduction to Spanish and Latin American life and culture. (GPN, EXP)

SPAN 222 Intermediate Spanish II (4)

Prerequisite: successful completion of SPAN 221 or equivalent, or placement. Continues development of reading, writing, speaking and listening comprehension skills, with particular emphasis on the development of oral proficiency at the equivalent of intermediate-mid level. Includes a study of aspects of Spanish and Latin American life and culture and an introduction to the reading of short literary and non-literary selections. (GPN, EXP)

SPAN 312 Language and Culture in the Yucatan Peninsula (1)

Pre- or Co-requisite: SPAN-222 (or higher) or placement in SPAN-222 or higher. Explores the relationship between language and culture through readings and class discussions on the many cultural traditions and practices of this region. Students will be afforded many opportunities for experiential learning by engaging with local Spanish speaking communities, both here and abroad, providing a real-life context for students to practice their language skills and reflect on these intercultural exchanges. Students enrolled in this course will participate in a mandatory short-term study abroad experience in Merida, Mexico.

SPAN 321 Advanced Spanish: Grammar, Composition & Conversation I (4)

Prerequisite: successful completion of SPAN 222 or equivalent, or placement. Continues development of reading, writing, speaking and listening comprehension skills. Aims to have students attain intermediate high to advanced low on the ACTFL scale for all four language skills by the end of the next course in the advanced sequence. Entry course for the Spanish major. (GPN)

SPAN 322 Advanced Spanish: Grammar, Composition & Conversation II (4)

Prerequisite: successful completion of SPAN 321 or equivalent or placement. Continues development of reading, writing, speaking and listening comprehension skills. Students must attain intermediate high to advanced low on the ACTFL scale for all four language skills by the end of the course. (GPN)

SPAN 323 Introduction to Hispanic Literature (3)

Prerequisite: SPAN 322 or placement. An introduction to the scope of Hispanic Literature. Studies significant literary works in prose, poetry, drama and the literary essay and authors from the medieval to contemporary times. The course approaches literature in its historical dimension as part of a larger cultural and historical process. Introduces vocabulary, concepts and methods to enable students to analyze the building blocks of literary texts and see how meaning is constructed and deconstructed. (LP, GPN)

SPAN 324 Spanish for Heritage Learners (4)

Prerequisite: SPAN 321 or equivalent or placement or higher. Continues the development of listening, writing, and speaking skills in Spanish for heritage speakers, with the emphasis on their unique linguistic and cultural needs and abilities. Service-learning is required. (Note: this course is intended for heritage speakers of Spanish.) (GPC)

SPAN 325 Spanish Conversation Through Film (4)

Pre- or Co-requisite: SPAN 322. Develops and hones conversational skills in Spanish through the critical reading of films from Spain, Latin America and the Latino U.S. Students will engage in vocabulary-building, written reflection and discussion-based activities, learning strategies for and approaches to examining audiovisual texts in their appropriate historical, cultural and linguistic contexts.

SPAN 332 Modern Spanish Literature (3)

Prerequisite: SPAN 323 or equivalent. Focuses on various authors and genres in the modern literature of Spain, including the society and culture that made that literature possible. Students will learn how to engage the literary text in order to see how it reflects history and represents human endeavor in political, aesthetic and personal terms. May be taken twice with different genres/authors.

SPAN 342 Modern Spanish American Literature (3)

Prerequisite: SPAN 323 or equivalent. Focuses on various authors and genres in the modern literature of Spanish America, and the cultures that produced that literature. Requirements include extensive reading, class discussion and short essays. Continues to develop the student's language skills toward the proficiency goals required of all majors. May be taken twice with different genres/authors. Offered alternate years.

SPAN 343 Civilization of Hispanic America (3)

Prerequisite: successful completion of SPAN 323 or equivalent. Conducted in Spanish. Surveys various topics from the history and culture of the Latin American peoples. May include daily life, cultural values, political, social and economic issues, art, music, literature and film. Also continues to develop students' language skills toward the proficiency goals required of all majors. Offered alternate years. (HP, GPC)

SPAN 344 Culture and Civilization of Spain (3)

Prerequisite: successful completion of SPAN 323 or equivalent. This course offers students a survey of Spanish culture and civilization, from prehistoric times to the present. Students will examine Spanish geography, history, politics, religion, civilization and the arts through written and visual texts. (HP, GPN)

SPAN 350 Hispanics/Latinos in the United States (3)

Prerequisite: successful completion of SPAN 323 or equivalent. Conducted in Spanish. Studies the culture, history, and social, economic and political situation of the Hispanic/Latino population in the United States through its literature, film and music, and through current articles on the subject. Readings in Spanish and English. Also continues to develop student's language skills toward the proficiency goals required of all majors. Offered alternate years. (GPC)

SPAN 425 Topics in Hispanic Culture and Civilization (3)

Prerequisite: SPAN 323 or equivalent. Offered occasionally to meet students' needs and interests in the cultures of Spain or Latin America. This course will allow students to explore current issues, history, film or other topics of interest while continuing to develop language skills toward the proficiency required of all majors. May be repeated with different topics.

SPAN 487 Senior Seminar in Hispanic Literature and/or Culture (3)

Prerequisite: two Spanish courses numbered 332 or higher. Explores a focused topic in the literature and/or culture of Spain and/or Latin America. Students are expected to apply the knowledge and skills they have acquired during the course of the major program in an interdisciplinary manner. May be repeated for credit when topics vary.

SPAN 488 Senior Capstone Project (1)

Prerequisite: senior standing or instructor permission. The student will collaborate with a Spanish professor to explore in depth a topic of interest related to the cultures and languages of the Spanish-speaking world.

SPAN 494 Language Teaching Practicum (6-9)

Offers opportunity to apply second-language teaching methodology in small-group setting. Emphasis on oral skill development. Will be supervised by a faculty member.

SPAN 499 Independent Study (Arr)

Prerequisite: completion of advanced courses offered on campus with instructor's permission. For majors who have completed all advanced courses on campus, and who wish to investigate some area of individual interest.

Strength and Conditioning

SC 121 Theory and Practical Application of Skill-Related Fitness (3)

Examines the scientific theory and practical application of the skill related components of physical fitness (i.e. agility, coordination, balance, reaction time, and speed). Topics will include recent trends and a multi-component approaches to teaching and coaching weight room technique and various other skills in strength and conditioning. (Does not count toward the KIN major.) (Students who received credit for EXSC 121 may not also receive credit for KIN 121.)

SC 293 Practicum in Strength and Conditioning I (3)

Prerequisite: instructor's permission. Entry-level study of Olympic lifts, torso training, functional warm-ups and speed drills. Discussions related to applications and concepts in strength and conditioning will be emphasized. Allows the student to develop basic knowledge to be able to assist the strength and conditioning staff to perform, instruct and correct basic lifting technique. Pass/No Credit basis. (Students who received credit for EXSC 293 may not also receive credit for KIN 293.)

SC 372 Principles and Theories of Strength and Conditioning (4)

Prerequisite: KIN 254 and 257. Advanced study of the scientific principles and theories related to strength and conditioning. Discussions related to applications and concepts in the exercise sciences, testing and evaluation, program design, and strength and conditioning administration and facility organization will be emphasized. (Students who received credit for EXSC 372 may not also receive credit for KIN 372.)

SC 393 Practicum in Strength and Conditioning II (3)

Prerequisite: instructor's permission. Advanced study of implementation of Olympic lifts, core training, functional warm-ups, functional rehabilitation, functional training and warm-up methodology. Discussions related to applications and concepts in strength and conditioning will be emphasized. The students will be expected to practice, demonstrate, refine and apply competencies gained in previous setting. The students will also demonstrate appropriate communication skills with other professionals working with their team. Pass/No Credit basis. (Students who received credit for EXSC 393 may not also receive credit for KIN 393.)

SC 493 Practicum in Strength and Conditioning III (3)

Prerequisite: instructor's permission. Senior level review and evaluation of practicum competencies and proficiencies. Extensive content in organization and administration of Strength and Conditioning programs. Discussions related to applications and concepts in strength and conditioning will be emphasized. Preparation for the National Strength and Conditioning Association's Certified Strength and Conditioning Specialist examination will occur. The students will be expected to practice, demonstrate, refine and apply competencies gained in previous setting. The students will also demonstrate appropriate communication skills with other professionals working with their team. Pass/No Credit basis. (Students who received credit for EXSC 493 may not also receive credit for KIN 493.)

Sustainability

SUST 125 Introduction to Global Sustainability (3)

Global sustainability is about meeting the needs of the present generation without compromising the ability of future generations to meet theirs. Sustainability has three interconnected dimensions: environmental, economic, and social, because people all over the planet, rich and poor, urban and rural, children and adults, have a wide variety of basic human needs. This course will challenge you to think about yourself in relation to the natural world, in relation to other people in the natural, and economic, and social world, and our responsibilities in relation to those yet unborn people of future generations, who also have basic rights to a good life in dignity on Planet Earth. (GS, WRT)

Writing

WRIT 100 Writing Studio (1)

Co-requisite: Concurrent registration CIV 110. Practice in the basics of academic writing, including a focus on the writing process. Students will strengthen writing skills through weekly large group workshops and appointments with a writing center tutor. Pass/No credit basis.

WRIT 101 Composition (3)

Emphasizes essay writing, including argumentative and persuasive prose based on the critical reading of various texts. Promotes the development of college-level skills with emphasis on speaking, writing and analytical thinking. Does not count toward the major. (WRT)

WRIT 102 Writing Studio II (1)

Prerequisite: WRIT-100, Co-requisite: Concurrent enrollment in a WRT Course. Continued practice in the basics of academic writing, including a focus on the writing process. Students will continue to strengthen writing skills through weekly meetings with the Director of Writing and weekly appointments with a writing center tutor. Pass/ No credit basis.

UPWARD BOUND PROGRAM COURSES

The following courses are offered through the Central College's Upward Bound program during the summer to provide high school juniors and seniors an opportunity to sample college courses and earn college credit. Two or three courses are offered each summer. These courses have been approved for college credit as electives.

BIO 100 Issues in Human Biology (1.5)

A special course offering for the Upward Bound program comprising a brief survey of the human body's organ systems, laboratory examination of their tissues and discussion of current issues in human health.

ENG 103 Improving Reading in the Content Areas (1.5)

This course is designed to teach students a variety of techniques for comprehending nonfiction material. Students will learn reading strategies and have opportunities to apply those strategies. The objective for each student is to be able to identify the format of a given text and utilize the most effective strategy based on the selection's design and the purpose for reading.

GENR 101 Pathways to College (1)

A college success and leadership course designed for Upward Bound student advisory board members.

CHICAGO SEMESTER COURSES

The following courses are offered to Central students studying in Chicago through the Chicago Semester program, which serves students through a consortium of colleges and universities. Interns choose two courses (Arts in the City, Diversity and Inequality, Urban Planning or Values and Vocation) along with an internship. Student teachers do not choose courses, but participate in a seminar related to student teaching.

EDUC 453C Advanced Integration of Technology in Education-Elementary (1)

This course will be taught on-line through Central College. Prerequisite: admission to the teacher education program. A continuation of EDUC 250 for elementary education. Focuses on instructional technology strategies, educational pedagogy, educational philosophy and research, and a wide variety of instructional technologies. Emphasis on learning how to plan, design, and integrate technologies into teaching and learning. The ethical and equitable use of instructional technology is discussed and demonstrated by students. Designed for students seeking K-6 licensure. Taken concurrently with EDUC 460.

EDUC 455C Advanced Integration of Technology in Education-Secondary (1)

This course will be taught on-line through Central College. Prerequisite: admission to the teacher education program. A continuation of EDUC 250 for secondary education. Focuses on instructional technology strategies, educational pedagogy, educational philosophy and research, and a wide variety of instructional technologies. Emphasis on learning how to plan, design, and integrate technologies into teaching and learning. The ethical and equitable use of instructional technology is discussed and demonstrated by students. Designed for students seeking 6-12 licensure. Taken concurrently with EDUC 470.

EDUC 460C Elementary Student Teaching (12)

Prerequisite: blocks 1, 2 and 3 and approval of the teacher education committee. Students will observe, assist and teach in elementary school classrooms under the guidance of the classroom teacher, the school principal and the college supervisor. Taken concurrently with EDUC 485. Pass/No Credit basis.

EDUC 470C Secondary Student Teaching (12)

Prerequisite: approval of the teacher education committee. Students observe, serve as teaching assistants and take responsibility for teaching in grades 7-12 under the guidance of their college supervisor, the classroom teacher and the school principal. Taken concurrently with EDUC 451 and 486. Pass/No Credit basis.

EDUC 485C Senior Seminar in Elementary Education (2)

Prerequisite: approval of the teacher education committee. A capstone course integrating research, theory and application of concepts and skills in the field of education. Each student will develop and present a professional portfolio and an action research project at the conclusion of student teaching, and will engage in a variety of planned professional development opportunities. Taken concurrently with EDUC 460 or EDUC 462 and EDUC 466. Pass/No Credit basis.

EDUC 486C Professional Development Seminar-Secondary (2)

Prerequisite: approval to student teach. A capstone course integrating research, theory and application of concepts and skills in the field of education. Each student will develop and present a professional portfolio. This course is taken concurrently with student teaching. Pass/No Credit basis.

FA 200C Arts in the City (3)

This course investigates urban cultural life as reflected in the arts of Chicago. Students will attend plays, concerts, movies, and visit art galleries. We will process these experiences through readings, lectures, and classroom discussion as we explore how Christians engage culture. (ART)

GENR 200C Social Entrepreneurship (3)

This course helps Chicago Semester students enrolled in the new summer entrepreneurship track develop a Christian perspective on the ethical, cultural, and pragmatic concerns arriving with the emergent field of social entrepreneurship. (Summers only)

GENR 385C Diversity and Inequality: Engaging Chicago Cross Culturally (3)

This course introduces students to the culture, history, assets, and challenges of Chicago neighborhoods. Students will examine their own social and cultural locations and compare and contrast how their stories are similar to or different from the Chicago racial and ethnic landscape. (GPC)

GENR 386C Urban Planning, Development and the Sustainable City (3)

This course explores the evolution and development of the city, with particular emphasis on the built environment in Chicago. Students will explore the significance of the city's architecture, sculpture, parks, community murals, and impacts of city design. Students will seek to understand and critique the city's built environment through field trips, guest speakers, readings, and class discussions. (GS)

GENR 387C Social Justice Seminar (3)

This course will introduce students to major streams of social justice thought, including the history of the criminal justice field and contemporary movements for social justice. We will examine the role of race, poverty, and inequality in people's experiences of the criminal justice system in the U.S. As a class we will discuss how marginalization, segregation, and the lack of access to social resources influences people's experiences of justice. We will also explore two major issues related to justice: mass incarceration and mass eviction. Finally, through conversations and visits with practitioners, advocates, and organizers we will look at models of restorative justice and how communities address issues related to injustice. (GS)

GENR 397C Chicago Internship (9)

This field education internship experience gives students hands-on practice experience in the knowledge and skills learned in major courses. Students develop a learning contract for focused areas of development and learning and are mentored and supervised at the site by professional staff with experience in the area of practice. Students are also supervised by Chicago Semester staff through a weekly professional seminar course and through midpoint and final site visits. Taken only on the Chicago Semester program. Pass/No Credit basis.

PHIL 286C Values and Vocations (3)

This course explores from a variety of perspectives on the concept of vocation. Drawing on readings from religion, theology, and sociology, students will examine the ways in which we discern our calling in light of our responsibility to engage the common good. Students will also look at social structures that impact work and family life (gender, race, religion, and class) and how they might shape our understanding of vocation.

SPAN 250C Hispanic/ Latine Culture and Community in Chicago (3)

The Latine community has a rich history in the city of Chicago. Centered on story and activism, this course focuses on the development of different ethnic communities and their engagement with social justice issues, particularly immigration/ immigrant rights. Students will be able to immerse themselves in this history by taking various trips to key locations in Chicago's Latine neighborhoods. (GPC)

WASHINGTON CENTER COURSES

The following courses are offered to Central students studying in Washington, D.C., through The Washington Center program, which serves students from colleges and universities throughout the country and abroad.

GENR 389D Washington Center Seminar (3)

Courses in a variety of disciplines taken in conjunction with internships in Washington, D.C., under the auspices of The Washington Center.

POLS 397D Washington Center Internship (8 for summer; 12 for fall or spring)

Professional internship in Washington D.C. through The Washington Center designed to enrich students' education through supervised practical experience in nearly every possible setting: government, business, historical, fine arts, sciences, health, not-for-profit, among others.

ACADEMIC RESOURCES

Student Support Services

Student Support Services (SSS) is a federally funded program available to 200 eligible Central students. It is the purpose of SSS to assist students in achieving their educational goals and to enhance the college experience by providing opportunities for social, emotional, and cultural growth. All eligible students are assured equal access to programs, with the eventual outcome being successful graduation from college. The program provides the following support services:

- Introduction to College Success Courses to make the transition into college a positive experience
- Peer instructors to answer questions or concerns
- Professional tutors, peer tutors, and group study sessions to assist with academic challenges.
- Opportunities to attend cultural events, participate in service activities, attend leadership seminars, and experience other activities.
- Professional counseling for academic, career, or personal concerns
- Laptops and textbook labs for student assistance
- Preparation and visits to graduate schools for SSS participants
- Seminars, workshops, and financial literacy videos to enhance financial aid options and money management
- Individualized accommodations for students with documented disabilities

The Tutoring & Writing Hub

The Tutoring & Writing Hub (TWH) provides free individual and group peer tutoring, for both writing and academic subjects, and Supplemental Instruction (SI) sessions. Trained student tutors, recommended by faculty, offer feedback and assistance on an appointment or drop-in basis. Writing tutors consult with students on all aspects of the writing process and on any writing assignments. Writing tutors are also paired with each section of CIV-110, and writing fellows are available for writing-intensive courses. Subject tutors work with individuals or small groups to better understand class material and assignments. SI sessions are peer-led group reviews for historically difficult classes. The TWH, co-directed by the Director of Writing and the Tutoring Coordinator, is located in Geisler Library, facilitating close collaboration between librarians and the tutoring and writing staff in their support of student learning.

Geisler Library

Geisler Library is central in supporting student learning and academic success. It provides an extensive collection of print and electronic books, journals, films, music, and archival materials, as well as online access to numerous databases and full-text academic journals. Librarians offer individual research assistance and work closely with faculty to teach students the research abilities necessary for intellectual achievement and lifelong learning. The library supports students and faculty as innovators and creators by providing expertise and equipment for digital media projects. Tutoring and writing services are located in the library, facilitating close collaboration between librarians and tutoring and writing staff in their support of student learning. Classes may utilize the library instruction areas for research or writing workshops. Students can take advantage of numerous group and individual study spaces or take a break in the Global Café at Geisler downstairs. Geisler Library's celebrated Writers Reading Series features local, national, and international authors reading and discussing their works.

Information Technology

Almost every facet of life at Central College is supported by some form of technology. From communicating with future students to keeping in touch with alumni, technology helps students, faculty, and staff learn, teach, work, and play.

A campus portal called my.Central serves as a gateway to campus information and web-based services. Students can access customized campus and course information on-the-go through the DutchConnect mobile app. Faculty and students have electronic access to course materials and related tools through Blackboard Learn, Central's learning management system. A student information system powered by Ellucian Colleague supports Central's administrative processes from before admission through graduation and beyond.

Google Workspace and Microsoft Office365 provide email services, cloud storage for files, and collaboration tools for group projects. Technology-enhanced classrooms enrich the face-to-face learning experience, while Zoom videoconferencing enables remote participants to join meetings and classes from anywhere in the world. The Panopto video platform allows faculty to record live classes and student presentations as well as create tutorial videos.

Students are encouraged to bring their own computers and smart devices to campus and may print from their personal computers to multi-function printers located around campus. There are several computer labs where students have

access to specialized software. In many cases, license agreements allow that software to be accessed online or installed on student's personal computers.

The student's physical ID card is used for many purposes such as check-in at the dining venues, opening residence hall doors, releasing print jobs, and borrowing library materials. A mobile app called CBORD Mobile ID can be used in place of a physical ID card to open residence hall outside doors.

A campus-wide Ethernet network and redundant connections to the Internet underpin all these systems. A robust wi-fi network blankets the campus, including classroom buildings, residence halls, and most outdoor spaces.

Students who bring a television to campus may connect to an all-digital cable TV system in their residence hall rooms. Televisions must have QAM tuners to pull in all the available channels. Channel 4.1 is a Campus Life Channel used to promote activities and events happening on campus.

The ITS Help Desk, located in the lower level of Douwstra Auditorium, is staffed by computer professionals and student workers, and provides technical support to students, faculty, and staff. The friendly experts in IT Services strive to enhance learning and productivity through both proven and innovative technology solutions and support services. They seek to provide reliable and secure communication systems that support current day-to-day operations while keeping an eye to the future by monitoring technology trends and anticipating campus needs.

Information Technology Policies

Additional information regarding Information Technology Policies is available at <https://www.central.edu/policies/section/51>.

PRE-PROFESSIONAL PROGRAMS

Pre-health

The pre-health advising program is designed to serve the needs of students who plan to attend professional or graduate school in a variety of health-related fields (including but not limited to medical school, veterinary school, dental school, optometry school, chiropractic school, nursing school, physical therapy school and occupational therapy school). Central offers dual degree agreements with Palmer College of Chiropractic (Davenport, Iowa), Washington University (St. Louis, MO) for Occupational Therapy, Allen College for Nursing and Occupational Therapy (Waterloo, Iowa) Drake University (Des Moines, Iowa) for Athletic Training, Grand View University (Des Moines, Iowa) for Athletic Training Loras College (Dubuque, Iowa) for Athletic Training and the University of Iowa for Athletic Training. Because of the diversity of academic preparation required by the various health professional and graduate schools, pre-health advising is designed as a supplemental program meant to complement any major. As students identify specific professions or areas of interest, they should declare their intent and interest area(s) via the pre-health declaration form which is submitted to the Pre-Health Advisor. The role of the Pre-Health Advisor is to guide the student in identifying appropriate graduate or professional schools and their admission requirements and to assist the student in designing curricular sequences to meet the individual professional school requirements.

Pre-athletic training

Central's agreements with Master's in Athletic Training programs allow students to secure admittance to an entry-level program. The four program affiliates include: Drake University (Des Moines, Iowa), Grand View University (Des Moines, Iowa), Loras College (Dubuque, Iowa), and the University of Iowa. Each program has unique conditions:

- Drake University will hold up to two seats for Central College graduates
- Grand View University will hold up to two seats for Central College graduates
- Loras College will hold up to two seats for Central College graduates
- University of Iowa will hold up to three seats for Central College graduates.

Students are expected to complete their undergraduate major in Kinesiology at Central College while fulfilling the necessary pre-requisite courses and expectations for the specific program. Then, interested students go through the accelerated admissions process. Students interested in this option should contact the Pre-Health Advisor. The Pre-Health Advisor will work with students and their major advisor to ensure that all required coursework is taken and to communicate with representatives at the prospective professional program regarding the admissions process.

Pre-chiropractic

Central's 3 + 1 agreement with Palmer College is an excellent opportunity for students to obtain both a Doctor of Chiropractic degree and a liberal arts degree in a shortened time span. Students will earn credits toward a Bachelor of

Arts degree (BA) from Central College majoring in Biology and transfer to Palmer College to begin work on the Doctor of Chiropractic degree. Students typically spend three years at Central as full-time students, taking courses toward the Central College degree with a major in Biology. Students are able to take full advantage of all opportunities offered at a small liberal arts institution. After three years at Central College, students transfer into the Palmer Program. Credits earned during the first year in the Doctor of Chiropractic program at Palmer College are transferred back to Central College and allow the student to complete the Central College BA degree. Students may also opt to complete the four-year degree with another major at Central College and then apply to the Chiropractic Program at Palmer College.

Students interested in this program should contact the Pre- Health Advisor. The Pre- Health Advisor will work with students and their major advisor to ensure that all required coursework is taken and to communicate with representatives at Palmer College regarding transfer into their Doctor of Chiropractic program. Because the 3 + 1 option does involve meeting several requirements for both degrees it is best if interested students meet with their advisor and the Pre- Health Advisor prior to the start of their first semester to discuss a three- year schedule plan that will ensure that all requirements are met in order to graduate in the time frame mentioned above.

Pre-nursing

Central's agreement with Allen College is an excellent way for students to obtain both a nursing degree and a liberal arts degree. This program allows students to complete both a Bachelor of Arts degree (BA) from Central College in the major of their choice and a Bachelor of Science in Nursing (BSN) from Allen College. Students are able to take full advantage of all opportunities offered at a small liberal arts institution. Students may spend three or four years at Central as a full time student, taking courses toward the Central College degree and then transfer into the Allen College Accelerated Nursing Program and complete a one-year program. Credits earned from each institution allow for completion of both degrees in just a little over 4 years. Students may also opt to complete the four-year degree at Central College and then apply to the Nursing Program at Allen College.

Students interested in this program should contact the Pre-Health Advisor. The Pre- Health Advisor will work with students and their major advisor to ensure that all required coursework is taken and to communicate with representatives at Allen College regarding transfer into their accelerated Nursing program. Because the pre-nursing option does involve meeting several requirements for both degrees it is best if interested students meet with their pre-health advisor and their major advisor prior to the start of their first semester to discuss a three- year plan that will ensure that all requirements are met in order to graduate in the time frame mentioned above. It is also recommended students meet with the financial aid office to discuss how federal financial aid is affected in the pursuit of the nursing degree.

Pre-occupational therapy

Central's 3 + 2 (MSOT) or (OTD) agreement with Washington University in St. Louis and Allen College are excellent opportunities for students to obtain either a Master's or Doctor of Occupational Therapy degree and a liberal arts degree in a shortened time span. Students will earn credits toward a Bachelor of Arts degree (BA) from Central College and transfer to Washington University in St. Louis or Allen College to begin work on the professional degree. Students typically spend three years at Central as full-time students, taking courses toward the Central College core, their chosen major, and 90 total credits. Students are able to take full advantage of all opportunities offered at a small liberal arts institution. After three years at Central College, students transfer into the occupational therapy program. Credits earned during the first year in the professional program are transferred back to Central College and allow the student to complete the Central College BA degree.

Students interested in this program should contact the Pre- Health Advisor. The Pre- Health Advisor will work with students and their major advisor to ensure that all required coursework is taken and to communicate with representatives at Washington University in St. Louis or Allen College regarding transfer into their professional program. Students will still be required to go through the full admissions process at Washington University in St. Louis or Allen College. Because the 3 + 2 or 3 option does involve meeting several requirements for both degrees it is best if interested students meet with their advisor and the Pre- Health Advisor prior to the start of their first semester to discuss a three-year plan that will ensure that all requirements are met in order to graduate in the time frame mentioned above.

Pre-law

By design, Central does not offer a pre-law major. Law schools regularly accept students from all majors. Pre-law advisors, law school admissions directors, the American Bar Association, American Association of Law Schools – and attorneys – indicate that developing and sharpening key skills and values are the best preparation for the study and practice of law. All strongly agree on the value of a well-rounded liberal arts education.

Choose a major that you are interested in or that fits with your personal and professional life goals. Increasingly, law schools are admitting students from a wide range of majors, including the social sciences, natural sciences, and the arts. Law schools are interested in demonstrated academic success and skill development, not in a specific list of

courses taken or a particular major. They are also generally unimpressed by double majors or minors. During your undergraduate years, work towards achieving the strongest possible academic record you can and enroll in courses that will enhance the skills necessary to be successful in law school.

The American Bar Association Committee on Pre-Law Education and Iowa law schools recommend that you consider the following key skills areas when choosing courses:

- Writing Skills
- Analytical Reasoning Skills
- Logical Thinking and Problem-Solving Skills
- Critical Reading Skills
- Oral Communication and Listening Skills
- Research and Information Literacy Skills
- Task Organization and Management Skills
- Values of Serving Faithfully the Interests of Others While Promoting Justice
- A Healthy Respect for History

Developing and sharpening these skills and values will increase your potential for success in the very rigorous, demanding study and practice of law. Attorneys – and law students – must be able to analyze complex and sometimes conflicting cases and statutes, while expressing their legal reasoning with clarity, logic, and precision. Choose courses that are designed to prepare you to write well and think logically. Take challenging courses, with challenging requirements, which force you to continuously improve your writing, analytical, and research skills.

Central's pre-law program is an advising-based program. Central does not offer a major or certificate/endorsement in pre-law, but works with students, in partnership with their academic adviser(s), to choose courses which will maximize their skills prior to applying for law school.

Pre-ministry

Central College continues the emphasis of the ecumenical Christian tradition in general, and the Reformed tradition in particular, to prepare students for a life of service to God and community, as well as to prepare some students for a professional vocation in the ministry.

The chaplaincy and the religion faculty work together to provide a period of reflection and discernment for students who are considering ministry, whether this be lay ministry (such as missions, church-related teaching, or para-church service) or ordained ministry that requires further graduate or seminary study. Pastoral and vocational counseling is offered by the chaplain, the director of the Christian ministries emphasis of the religion major, and other faculty members. In addition, pre-ministerial students usually complete either a major or a minor in religion in order to give them adequate grounding in scriptural studies, in church history, theology, and ethics, and in at least one world religion other than Christianity. The students also have an opportunity to complete ministry internships in churches and church-related organizations either locally or through Central's off-campus programs. Students may also choose to receive spiritual formation from a designated mentor.

The variety of denominations represented by the faculty, students, and staff at Central College provides student with a rich exposure to various formulations of Christian teachings and practices. Although our aim is to provide students with an opportunity to study various church teachings besides their own, we also focus a particular student's study on the Church teaching to which he or she is most accustomed. As parts of an educational institution, the chaplaincy, the Christian ministries emphasis, and the religion major encourage students to develop a strong sense of the centrality of education to ministry. We foster an integration of faith with training of intellectual qualities of mind in order to establish a student's vocation on the best that is thought and known in Christian teaching and ministry.

HONORS

Emerging Scholars Program

Central College's Emerging Scholars Program presents academically high-achieving students with the opportunity to grow as intellectuals within a community of their peers. The components of the Emerging Scholars Program give students the flexibility to explore multiple disciplines as they advance their knowledge within a major discipline. Students who are accepted into the Emerging Scholars Program forge important mentoring relationships with faculty, and practice taking the initiative to pursue their own intellectual interests. In addition to the strictly academic elements of the Emerging Scholars Program, members are invited to attend special cultural and educational events programmed for them throughout the year.

The capstone of the Emerging Scholars Program is the Senior Honors Thesis, a significant research project spearheaded by the student, and supervised by two faculty members. In addition to offering unique opportunities for in-depth study, the thesis allows students to distinguish themselves when applying for graduate school, post-graduate scholarships and fellowships, and future employment.

Application

Membership in the Emerging Scholars Program is by application only. Students who have at least a 3.500 Central College cumulative grade point average are eligible to apply.

Students may apply after completing at least one semester as a full-time student at Central College; students must be accepted into the program at least three semesters prior to graduation, or no later than the first semester of their third year. If at any time the student falls below the 3.500 minimum GPA they must raise their GPA by the following semester to at least a 3.500 cumulative GPA to remain in the program.

Components

For a student to earn an Honors designation on their transcript the following components of the Emerging Scholars Program must be successfully completed:

- Two Honors Seminars (HONR 191 or HONR 391)
- Two Honors Enrichments or directed/independent study approved by the Honors Program Coordinator
- A Senior Honors Thesis
- A 3.500 cumulative GPA or above at the time of graduation

Honors Seminars* are one-credit courses taught by different faculty on campus in which students are grouped together from a variety of disciplines to explore topics at an advanced level. In addition, students may opt to add **Honors Enrichment Credit*** to courses in which they have special interest. In doing so, the student has the opportunity to work closely with a professor and pursue a topic in the course at an advanced level. The **Senior Honors Thesis** is a year-long capstone experience focused on an area of special academic interest, often relating to the total educational experience. To complete this work, students choose and work closely with a faculty mentor to formulate, research, create, and present a comprehensive and cohesive project. Completion of these components culminates with a ceremony in which each student is formally recognized and presented with a medallion to wear at commencement.

*In addition to accepted students in the Emerging Scholars Program, any students with at least a 3.500 cumulative GPA or entering first-year students with at least a 3.750 high school GPA or who finish in the top 5% of their class are eligible to take **Honors Seminars** and **Honors Enrichment Credits**.

For more information, on any of the components of the Honors program, contact the Honors Program Coordinator at honors@central.edu.

SPECIAL PROGRAMS

Service-Learning Modules

Service-learning modules provide for individualized (200 or 300 level) academic service-learning activity focused on a specific field of study in collaboration with an approved community partner. The registration process involves preparation and approval of a proposal in consultation with a faculty member and a member of Community-Based Learning (CBL)/ Civic Engagement. Typically, students will receive credit in the department of the faculty member. Requirements include: a minimum of 2 hours of service per week for every semester hour of credit earned; pre-experience readings; participation in CBL reflection series; a final product, and participation in the CBL Symposium at the conclusion of the semester. Modules may be taken for 1-3 credits, are graded pass/no credit, and may be repeated.

Internships

All academic internships bridge theory and practice, purposefully connecting academic learning to experience. Academic internships enhance a student's understanding of both themselves and a work environment and, in doing so, enrich their educational training.

In addition to work done at a business or other organization, each internship requires the formulation of an academic learning and application goal, career development goal, personal development goal, objectives and guided reflection through an evaluation plan developed in partnership with the faculty supervisor. This academic reflection can include, but is not limited to: goal- setting, reflection through journaling, portfolio development, peer-discussions, research, paper writing, and presentations. Similar to the traditional classroom, faculty members have the freedom to develop additional goals most appropriate for individual internships.

For each semester hour of credit, a student will complete at least 36 hours on-site and 6 hours of academic reflection. Registered internships are graded on a pass/no credit basis and are recorded on students' transcripts.

On-site and Academic Hours per credit hour			
Credit Hours	On-Site Hours	Academic Hours	Total Hours per Semester
1	36	6	42
2	72	12	84
3	108	18	126
4	144	24	168
5	180	30	210
6	216	36	252

The following policies also apply to students engaged in internship opportunities:

- A student may earn up to nine credits at the same internship site over a maximum of one academic year, provided that there is significant change over time in the duties involved or in the level of responsibility.
- No academic credit will be awarded for work already completed.
- Students must register for internships prior to either the start of work or the published deadline to add a course in the semester the internship is to take place, whichever is sooner.

Career and Professional Development provides assistance with site investigation, the application process, and guidance regarding evaluation. Internships are clearly invaluable in providing students with firsthand experience in professional work environments. For more detailed information and to search for internships go to [Handshake](#) and [Career Development - Home \(sharepoint.com\)](#)

The Washington Center (TWC)

Through a formal partnership with TWC, Central students may participate in internships in the nation's capital. Art students may work at the National Gallery, biology students at the National Institutes of Health, language students at the state department or foreign embassy – there are opportunities for every major. Costs are comparable to study on Central's campus, and both semester and summer programs are available. Participation is limited to selected upper-level students with a GPA of at least 3.0/4.0. Students may receive either a grade for seminar participation, as well as pass-no credit designation for the internship through the program. Interested students must obtain application information from Jessica Klyn de Novelo, Associate Dean, Career Development and Civic Engagement, rather than applying directly to TWC.

During the semester in Washington, D.C., students can receive 15 academic credits by enrolling in GENR 389D *Washington Center Seminar* (3) and POLS 397D *Washington Center Internship* (12). For the summer, students receive 11 credits, 3 for the seminar and 8 for the internship. For additional information, please go to: www.twc.edu.

Chicago Semester

Central College was a founding member of the Chicago Semester program. This is a consortial program offering internships or student teaching in Chicago during the fall or spring semester, and is done typically during a student's 3rd or 4th year of college. Students participating in internships take two graded seminar courses taught by Chicago Semester staff. In addition to outstanding career-related internships, students attend fine arts and cultural events, navigate metro transportation, and live in apartments in downtown Chicago. Students will register for one internship (9 credits) and two seminar courses (6 credits) for a total of 15 credits. Student teachers will register for student teaching (12 credits) and a seminar focusing on contemporary issues related to the urban classroom environment (3 credits). Application information and details about the selection process for Chicago Semester are available from Jessica Klyn de Novelo, Associate Dean, Career Development and Civic Engagement. For additional information, please go to the Chicago Semester website at www.chicagosemester.org.

The summer program consists of 10 weeks in which students will complete one course (3 credits) as well as a combined Internship/ Professionalism Seminar (6 credits).

Social Justice Internship Program in the City

This eight-week faculty-led summer program combines academic coursework and social justice training with an internship in one of many possible arenas in an urban setting. Central faculty serve as program leaders and teach the course *Interdisciplinary Perspectives on Social Justice*. Internships take place in non-profit and community organizations. Open to students in any discipline, the program provides a strong foundation in social justice theory and practice within an experiential learning setting that encourages reflection. For more information contact Jessica Klyn de Novelo, Associate Dean, Career Development and Civic Engagement.

International Education at Central College

Central College supports off-campus programs around the world as part of its commitment to global experiential learning. Students are actively encouraged to develop global competencies allowing them to understand, live and work in culturally diverse environments. International education challenges students to understand empathetically, live cooperatively and act responsibly in a changing and intricately connected world.

Each major allows space for students to study off campus for at least one semester earning credits toward a major, minor in pre-approved programs. Most locations offer various study tracks and can accommodate students at multiple levels of language and proficiency.

For additional information visit the Off-Campus Experiences page (www.central.edu/study-abroad).

Seeking pre-approval for other programs

Central students seeking to enroll in a non-Central study abroad program that has not been pre-approved are advised of the following:

1. There is no guarantee that Central College will accept in transfer any academic credit earned on such a program or that any accepted credit will meet particular academic requirements (i.e., core, major, minor).
2. There is no guarantee that Central College financial aid will be applied to pay for any portion of such a program. Students must formally request a review of potential transfer credit from such a program, as well as submit an application for financial aid one year in advance of the semester of intended study. Details are available in the financial aid, registrar, and global experiential learning offices on campus.

AWARDS

Academic and Leadership awards

All-college awards

Alpha Zeta Mu

These Greek letters symbolize leadership, living and learning. The society publicly recognizes academic excellence as evidenced by potential members of the organization and promotes intellectual and creative activity among Central students. Membership is awarded to those full-time students who are within 60 credits of graduation, have completed at least three semesters at Central and have achieved a minimum cumulative grade point average of 3.8.

John Allen Writing Award

All Central College students are eligible for the John Allen Writing Awards regardless of major or class standing. Professors from all disciplines are encouraged to submit student papers that exhibit superior rhetorical competence, high levels of readability, originality and insight. Papers are judged by an independent evaluator or committee who selects about 10 of the best papers to be published in the college's annual *Writing Anthology*. From these, the evaluators may name two writers for the John Allen Writing Awards. The award, in the form of a commemorative book, honors the late John Allen, former Central English professor.

Henry G. Eggink Award

The Rev. Henry G. Eggink Award is given to deserving preministerial students preparing for the parish ministry. Grant recipients are encouraged to use the funds provided for the purchase of books that will become the nucleus for a theological library.

Marjorie Giles Student Life Leadership Award--- to Athletics

The Marjorie Giles Student Life Leadership Award is given annually to a junior or senior who has demonstrated positive values through faith-based leadership in a variety of co-curricular activities, in addition to Central athletics as an athlete, trainer, student coach or related athletic role.

Graham Distinguished Scholar Award

The Graham Distinguished Scholar Award is given to students who are distinguished in both academic performance and in promise of future service to worldwide societies as revealed, in part, in personal perspectives that have been significantly enhanced by participation in an international education program. It is in honor of James Graham, former Dean, whose pivotal leadership catapulted Central's international programs to national prominence.

Prins Sportsmanship Award

The Prins Sportsmanship Award is given to honor the memory of Tunis W. and Harriet B. Prins. Together, they served Central College and the Pella community for a period of 24 years. Mr. Prins was Director of Athletics and Professor of Physical Education from 1938 until his untimely death in 1949 at which time Dr. T.G. Fultz presented a bronze plaque to the College in Prins' memory. In that same year Mrs. Prins became Residence Director of Graham Hall and later Dean of Women until her retirement in 1962. Tunis and Harriet Prins exemplified and encouraged good sportsmanship—in contests on the field and in all human relationships. Candidates for the award are recommended by members of the senior class and the faculty. From these recommendations, the award committee picks a student to receive the certificate of award and have his or her name engraved on the plaque.

The winner will be a student, athlete or non-athlete, who has demonstrated outstanding sportsmanship in dealing with fellow students on campus or in meeting life's challenges.

Ron Schipper Leadership Award

The Ron Schipper Leadership Award is presented annually to a senior who, in either formal or informal leadership roles, reflects the character, commitment and enthusiasm for Central College displayed by Coach Schipper during his 36 years of service to Central's students. The recipient must demonstrate a willingness to set lofty goals and the drive to achieve them, high ethical standards and strong Christian values, a joyous spirit, genuine concern for others and a deep, personal loyalty to Central College.

Julia Van Houweling Award

This award is given to the student who has completed a minimum of 12 credits each semester and earned the highest grade point average during the three preceding semesters. If two or more students have identical averages, the college honors committee will make the final selection. Previous winners are not eligible.

Service Award

This award recognizes a volunteer or student organization that demonstrated a superior commitment to the greater community during the past academic year through active service (i.e. hands-on service activities, philanthropic and fundraising events, political and/or advocacy efforts, or other civic engagement-related pursuits.)

Organizational Excellence Award

This award honors a student organization for making positive contributions to and building community at Central College, outstanding programming, and/or strong organizational structure, leadership, and action.

Outstanding New Leader Award

This award honors a first or second year student volunteer who shows leadership promise while not necessarily holding a leadership position through their exemplary contributions to a recognized student organization and have helped the organization grow their participation.

Outstanding Event Award

This award recognizes a successfully-planned, efficiently-run, effectively-advertised, and well-attended event that enhanced the social, educational and/or cultural life at Central College which was sponsored by a recognized student organization or student-led volunteer group.

Bridge Builder Award

This award recognizes a student volunteer, recognized student organizations or paraprofessional who have worked to establish connections across campus, i.e., collaborative social or educational events, exploration of diverse cultures, or education about issues that have challenged the campus.

Unsung Hero Award

This award recognizes a student volunteer(s) or student paraprofessional(s) that has/have positively influenced a program or organization from behind the scenes through a positive attitude, a willingness to help in whatever capacity necessary, and a commitment to excellence in the completion of tasks and duties.

Student Organization Advisor of the Year Award

This award recognizes an individual Central College employee who exemplifies Central's ideals of leadership, service and excellence through the individual's dedication, mentorship, compassion, and wisdom while serving as an advisor to a campus student organization.

Senior Student Development Award

This award is presented to a student paraprofessional who has made notable contributions within student development while at Central College. This award recognizes sustained, outstanding leadership in integrated, co-curricular, and/or extracurricular activities and involvement to improve an aspect campus life for students.

Diversity & Inclusion Award

This award is presented to a student volunteer or recognized student organization that actively demonstrates commitment to issues of diversity, inclusion, and social justice through its programming and campus initiatives.

Departmental Awards**Biology****Biology Senior Award**

This award is given to a top graduating senior who is entering graduate or professional school. The award consists of a cash award and a one-year membership in the Iowa Academy of Science.

John Bowles Award

This endowed cash award is presented to a graduating senior in recognition of exemplary achievement or service in the areas of environmental, ecological, evolutionary, or field biology.

Chemistry**Analytical Chemistry Award**

The Analytical Chemistry Award is chosen by the analytical chemistry professor and given to a chemistry major. The gift, a one-year subscription to the *Journal of Analytical Chemistry*, is awarded based upon interest and ability.

Art Bosch Chemistry Award

This endowed cash award, in honor of a long-time member of the chemistry faculty, may be given to a senior for outstanding service to the functioning of the department.

Chemistry Senior Award

This award is given to an outstanding senior majoring in chemistry. The award includes membership and a subscription to *The Chemist*.

Freshman Award

This award is given to the freshman who has gained highest achievement in Chemistry 111 and 231. The student is selected by the professors in these courses and receives a CRC handbook.

Inorganic Chemistry Award

The Inorganic Chemistry Award recognizes a senior student who displays significant aptitude for inorganic chemistry and to encourage further interest in the field. The award includes a certificate and letter of recognition from the ACS Division of Inorganic Chemistry.

Organic Chemistry Award

The Organic Chemistry Award recognizes a senior student who displays significant aptitude for organic chemistry and to encourage further interest in the field. The award includes a certificate and letter of recognition from the ACS Division of Organic Chemistry.

Communication Studies**Steve and Joyce Bell Excellence in Journalism Award**

The Bell endowed cash award is given to a sophomore, junior or senior who, over the course of an academic year, has demonstrated consistent excellence and integrity in journalistic reporting, writing, photography or video news packaging for campus publications, news broadcasts and on-line news outlets. The same recipient is not eligible for the award in consecutive years. Categories considered for this award include: news stories and opinion pieces that contain original reporting, investigative journalism, stories presented in a series, creative photo journalism, video news packaging, and editorial leadership. Nominations for the Bell Award are solicited from student editors of campus news outlets and their faculty advisors. The Communication Studies faculty selects from the nominations received.

C.A. and Frances L. DeBruin Award

Endowed by the Rev. C.A. DeBruin, the cash award goes to the junior or senior within the Communication Studies department who has exhibited sound academic achievement, high moral character, and who has made a significant contribution to the department.

Economics/Accounting/Business management**Butler Scholar in Economics Award**

Named in honor of Dr. Donald Butler, late Professor emeritus of economics, this honor and cash award is given to a senior economics major or a senior student who has completed a significant number of courses in economics. The award is based on the student's interest in independent research, the desire to pursue a career in economics or a related field, evidence of intellectual growth, and superior academic performance. The student is selected at the end of his/her junior year, and the student undertakes a research program in economics that culminates in a written paper and public presentation to other students and faculty.

Economics, Accounting and Management Department Business Management Award

This award is given to a senior Business Management major. Departmental faculty will grant the award based on the recipient's scholarship, leadership and demonstration of sincere interest in the field of business management. In recognition of his/her achievement, the award recipient's name will be inscribed on a plaque in the Weller Center. The award recipient also will receive a monetary award.

Economics, Accounting and Management Department Outstanding Leadership and Service Award

This award is given to a senior Economics, Accounting, or Business Management major who has distinguished himself/herself not only by earning a minimum cumulative GPA of 3.0, but also by providing independently driven and entrepreneurially minded leadership and/or service to the department and its students. This can be demonstrated either through work done in student clubs or through other volunteer service in the department. In recognition of his/her service/leadership, the award recipient's name will be inscribed on a plaque in the Weller Center. The award recipient also will receive a monetary award.

Economics Award

This award is presented to the senior economics major who has demonstrated the highest academic achievement in the economics major. The award winner must also have a sincere interest in an economics career and in furthering his or her education with graduate school experience.

Institute of Management Accountants Award

The award is given to the senior accounting major who has demonstrated excellence in accounting as determined by the department faculty. This award is given with the support of the *Institute of Management Accountants* to a student planning a career in accounting.

Iowa Society of CPAs Award

The award is given to the senior accounting major who has demonstrated excellence in accounting as determined by the department faculty. This award is given with the support of the *Iowa Society of Certified Public Accountants* to a student planning a career in public accounting.

Robert J. Maurer Accounting Award

Each year the faculty from the department of Economics, Accounting and Management will make a written recommendation for this award. The award shall be distributed to the senior accounting major who has demonstrated excellence in accounting as determined by the EAM department faculty. In making this determination the faculty will take all relevant facts and circumstances into consideration to include but not limited to the following criteria in making their selection: a min overall GPA of 3.5, a min accounting GPA of 3.33 with all 300 and 400 level accounting courses taken at Central or an approved program. Completion of a senior honors project with an Accounting related topic. Outstanding performance in Accounting Research Seminar; student has immediate plans for a career in accounting as evidenced by intention to take an accounting certification exam; service to the department through help with grading, supplemental instruction student clubs; high quality and outstanding performance in accounting related internship.

Education**Bruce and Susan Berical Anderson Education Grant**

The Bruce and Susan Berical Anderson Education Grant supports graduates of Central College who successfully complete the Central Teacher Academy in good academic standing. Susan was a dedicated teacher, mentor and friend to all those who knew and worked with her. The Central Teacher Academy supports all aspects of teaching and follows Susan's wish that with a passion for education, and a fire in their belly, all teachers can make a difference in the lives they touch.

Lee Collins Award for Excellence in Education

This endowed award is given to one or more upper class elementary education students who demonstrate ideals which were modeled by Professor Collins. Selection for the award is made by faculty members in the education department on the basis of academic achievement, and commitment to the welfare of youth.

Barbara Dieleman Award for Excellence in Education

The award is given in honor of Barbara Dieleman, a long-time member of the education faculty. The award is given annually to one or more upperclass education students who demonstrate ideals that were modeled by Professor Dieleman in her teaching career. Selection for the award is made by the education department on the basis of academic achievement, commitment to teaching and learning, personal qualities such as caring, and dependability, service to college and community and overall potential as an effective teacher.

Joyce Huizer Award for Excellence in Education

This award is given to one or more upper class elementary education students who demonstrate ideals which were modeled by Professor Huizer. Selection for the award is made by faculty members in the education department on the basis of academic achievement, commitment to the welfare of youth, and overall potential as a teacher, particularly in the areas of language arts education.

English**Calliope Award**

The Calliope Award is named for Muse Epic poetry and is awarded annually, at the department's discretion, to the English major who has demonstrated creativity and intellectual curiosity. The award is funded by members of the English department.

Environmental Science

Anya Z. Butt Environmental Studies Award

The Anya Z. Butt Environmental Studies award is awarded to a graduating senior who has had significant impact on campus or community through involvement and advocacy in environmental issues and has incorporated a sense of global awareness in their studies, evidence through participation in a study abroad program. The recipient receives a monetary award.

The Outstanding Environmental Science Award

The Outstanding Environmental Science Award is awarded to the student with the highest GPA graduating in the environmental science track of the major. The recipient receives a monetary award.

The Outstanding Environmental Sustainability Award

The Outstanding Environmental Sustainability Award is awarded to the student with the highest GPA graduating in the environmental sustainability track of the major. The recipient receives a monetary award.

Exercise Science

Verle Rinehart Exercise Science Award

The Verle Rinehart Exercise Science Award is an endowed award given to an outstanding senior graduating with an exercise science degree. It is hoped this recognition will inspire the recipients to greater service to mankind in the tradition that was Verle Rinehart's. Selection is made by the exercise science faculty. This endowed award pays for a certification exam.

Interdepartmental/Humanities

The Vander Lugt-Voss Scholarship Fund and Prizes in the Humanities

The Vander Lugt-Voss Scholarship Fund is given for excellence in the study of the humanities. Annually, the individual departments in the humanities division (English, history and philosophy/religion) choose one student from each department to receive a cash prize of \$100. Prize winners may major in any field and may be in any class so long as they have displayed excellence in their humanities division courses. The award is made in honor of Drs. Gerrit and William Vander Lugt. Dr. Gerrit Vander Lugt was Central College president from 1946-60 and Dr. William Vander Lugt was a professor of philosophy at Central from 1934-50.

Interdepartmental/Pre-health Science

Dr. Herman Vander Meulen Award

This endowed award is given to an outstanding senior pre-health student who has been accepted into medical school. This monetary award is to be used to start a professional library. The recipient receives a monetary award.

Interdepartmental/Pre-law

MVP Award

This award is presented to an outstanding member of the Central College Mock Trial Team who has contributed to the overall success of the team during the course of the season.

Mathematics/Computer Science

Henry W. Pietenpol Award

Each year the department gives this endowed award to one or two deserving juniors who have made significant contributions to the department through outstanding scholarship and other service. The award includes membership to the Mathematics Association of America or the Association for Computing Machinery and subscription to two journals.

Modern Languages

Denise Murray Award in French

Lilo Ritter Award in German

Jim Graham Award for Academic Excellence in Spanish

Martha Betancourt Prize for Departmental Excellence and Service Within the Spanish Department

These language awards are given to outstanding language students who have performed at an equally excellent level on campus and abroad and who have promoted the study of language on our campus.

Music

Music Leadership Award

The award is given to a senior music major who has demonstrated excellence in music performance, course work, peer leadership and support of larger department goals. Selection is made by the music faculty annually.

Physics

Richard J. Mentink Award

An award endowed by gifts of friends and the Mentink family in memory of Richard J. Mentink, who was a student at Central, is given annually to a student who has demonstrated worthy achievement in the field of college physics. The recipient receives a monetary award.

Political Science

Pi Sigma Alpha Award

This award is given to an outstanding political science student, usually a senior, who has set an example of sustained excellence within the discipline through speaking, writing and critical thinking.

Political Science Award

This award is given to an outstanding political science student who shows promise of excellence within the discipline through speaking, writing and critical thinking.

Sociology/Anthropology

Gordon F. De Jong Senior Award

This endowed, cash award is given to an outstanding senior sociology student who shows potential for graduate study. The award is to be used to purchase books for a professional library or for graduate education-related expenses.

Megan Sloss Award

The Megan Sloss award is given to a graduating sociology major who exhibits strong character, a positive and inquisitive spirit, builds relationships with both peers and faculty, and demonstrates devotion to social service work, positive social change, and/or social justice issues.

Theatre

Mr. "B" Outstanding Performance Award

Provided by former Central theatre director Robert Wegter in honor of Maurice Birdsall, director of theatre at Central from 1947-1977, the award goes to the student who made the most significant contribution to the theatre program and who has exhibited competent academic achievement. The recipient receives a monetary award.

Athletics awards

All-sports

Senior Coaches' Award

Presented to the senior female and male student-athletes who have achieved the highest grade point average during their college career and have earned a minimum of two varsity letters in one sport.

Sterling Strength and Conditioning Athlete of the year Award

Presented annually to the male student-athlete and female student-athlete who best demonstrate a burning passion to achieve their highest potential through strength and conditioning training; who display leadership in their workout programs; and who show significantly improved performance in their sports as a result of their training. The recipients are selected by the college's strength and conditioning coordinator and the exercise science department chair.

Baseball

Most Valuable Player Award

Harold and Mansford Versteeg Award

Given annually to the baseball player who best exemplifies scholarship, leadership, and sportsmanship as selected by the coaching staff.

Men's basketball

Defensive Player of the Year Award

Newcomer of the Year Award

Tom Steward "Hustle" Award

Established in 2013 as a memorial to Tom Steward by his family, this award is to honor a varsity men's basketball player who displays the most consistent effort and hustle during the season.

Connie Muyskens Memorial MVP Award

Established in honor of the late Rev. Cornelius P. Muyskens, the trophy is presented to the player making the best all-around performance in basketball. The record is based on ability and improvement during the season, scholastic standing, sportsmanship and faithfulness in training.

Wassenaar Coaches' Award

Awarded by the coaches to the basketball player, whose playing time though limited, makes a positive contribution to the team through attitude and example.

Mentink Award

Given in memory of the late Richard J. Mentink, this award is presented annually to the outstanding basketball player, who, by performance and example, both in varsity competition and in the classroom, provides inspiration and leadership to his team. This award is given by the late Drs. Maxine and D.M. Huffman.

Most Improved Player Award

Given to a player who made the most strides in development of his game during the off-season and/or during the year.

Gary Dirksen Achievement Award

Named for a Central graduate, long-time college administrator and ardent supporter of the Dutch men's basketball program, the award seeks to honor a varsity men's basketball player who has not only strived to achieve on the basketball court but has also strived to achieve off the floor. Consideration is given to the candidate's efforts to achieve academic excellence, to achieve leadership roles in college clubs and organizations and to achieve a sense of community involvement in working with local organizations.

Women's basketball**Most Valuable Player Award****Offensive Player of the Year Award****Defensive Player of the Year Award****Most Improved Player Award****Newcomer of the Year Award****Dutch Non-Negotiables Award****Gary Dirksen Achievement Award**

Named for a Central graduate, long-time college administrator and ardent supporter of the Dutch women's basketball program, the award seeks to honor a varsity women's basketball player who has not only strived to achieve on the basketball court but has also strived to achieve off the floor. Consideration is given to the candidate's efforts to achieve academic excellence, to achieve leadership roles in college clubs and organizations and to achieve a sense of community involvement in working with local organizations.

Men's cross country**Most Valuable Performer Award****Freshman of the Year****Most Improved Performer Award****Dutch Spirit Award****Women's cross country****Most Valuable Performer Award****Most Improved Performer Award****Freshman of the Year****Dutch Spirit Award****Football****Heerema-Schilder Memorial Most Valuable Player Award**

A plaque is given in honor of the late Arie Schilder to the player making the best all-around performance in football. The record is based on ability and improvement during the season, scholastic standing, sportsmanship and faithfulness in training. The award is endowed by Lester Claussen, John Ver Heul and Martin Heerema.

Mentink Award

The award is given in memory of the late Richard J. Mentink, a former player. It is given to that player, who, by performance and example, both on and off the field and in the classroom, provides inspiration and leadership to his team. The award is given by the Mentink family.

P.H. Kuyper Coaches' Award

Awarded by the coaches to the senior football player, whose playing time though limited, makes a positive contribution to the team through attitude and example.

Borgman Award

Given in honor of Worp Borgman to the senior football player who has achieved the highest cumulative grade point average and excelled on the field of play.

Les Claussen Coaches' Award

Given in memory of Les Claussen to the student who improves as a football player and makes outstanding contributions to the total program.

Bruce Wendt Award

Given in memory of former Central football player Bruce Wendt to the outstanding offensive lineman.

Dr. George H. Lankelma/Menning Award

The award, a wrist watch, is presented annually to the underclassman who contributes the most to the football team.

Wagner Award

Given in memory of former Central football player Kirk Wagner to the outstanding member of the offensive scout team.

Dagh Award

Given in memory of former Central football player Ted Dagh to the outstanding member of the defensive scout team.

Brian O'Donnell Award

Given in honor of Brian O'Donnell to the outstanding freshman football player.

Mel Ver Meer Loyalty Award

Given in memory of Mel Ver Meer to the player who has demonstrated loyalty to the program.

Men's golf**Most Valuable Freshman Award****Most Improved Player Award****Ryerson MVP Award**

Given in memory of late coach Norman Ryerson, the award is presented to the most valuable player on the men's golf team.

Wagner Award

Given in memory of former Central golf team member Kirk Wagner to the player, whose playing time though limited, makes outstanding contributions to the team through leadership and example on and off the golf course.

Women's golf**Maurine Timmer Most Valuable Player Award**

Established in honor of Maurine Timmer, the first Central women's golf coach (1973-87), the award is presented to the player making the best all-around performance in women's golf. The record is based on ability and improvement during the season, scholastic standing, sportsmanship and team commitment.

Most Dedicated Player Award**Most Improved Player Award****Most Valuable Freshman Award****Outstanding Attitude Award****Men's soccer****Most Valuable Player Award****Most Inspirational Player Award**

Most Improved Player Award
Outstanding Newcomer Award

Women's soccer

Most Valuable Player Award
Most Improved Player Award
Hustle Award
Newcomer Award
Most Inspirational Player Award

Softball

LeRoy Timmer MVP Award

Given annually to the outstanding member of the softball team.

LeRoy Timmer Most Inspirational Player Award

Presented to the player who through leadership, dedication, and example on and off the playing field, makes an outstanding contribution to the softball team.

Most Improved Player Award

Defensive Player of the Year
Newcomer of the Year

Men's tennis

De Haan Most Valuable Player Award

Given annually to the outstanding member of the men's tennis team.

Bogard Award

Given annually to the team's most improved player. The award is given by W. Carl and Alice Bogard.

Women's tennis

De Haan Most Valuable Player Award

Given annually to the outstanding member of the women's tennis team.

Bogard Award

Given annually to the team's most improved player. The award is given by W. Carl and Alice Bogard.

Men's track and field

Most Valuable Performer Award
Most Improved Performer Award
Most Valuable Freshman Award
Dutch Spirit Award

Awarded to the runner who shows a positive spirit and puts team before themselves.

Women's track and field

Most Valuable Performer Award
Most Improved Performer Award
Most Valuable Freshman Award
Dutch Spirit Award

Awarded to the runner who shows a positive spirit and puts team before themselves.

Volleyball

Jamie Hill Most Valuable Player Award

Established in memory of former coach Jamie Hill, the award is presented to the player who displays leadership, physical ability, a positive attitude, and hard work and effort. It recognizes the player who makes a genuine effort to contribute to the team and best exemplifies all of the above traits.

Mart & Elva May Heerema Achievement Award

This award honors a varsity volleyball player who has strived to achieve on and off the court.

Leadership Award

Dutch Spirit Award

100% Award
Most Improved Player Award
Freshman of the Year Award
Academic Award

Wrestling

Most Valuable Performer Award
Lawrence Award

Presented to the wrestler who best displays the dedication, intensity and work ethic exemplified by former team members Dale and Duane Lawrence.

Most Improved Performer Award
Most Valuable Freshman Award
Academic Award
Coach's Award

Awarded to a standout in areas important to the coaching staff that are not reflected in the record.

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 Dr. Jeffrey Oliver '79, Phoenix, Arizona, Academic Chair, Dept. of Pathology, Creighton University School of Medicine-Phoenix; COO, Pathology Associates, Ltd.
 Dr. Steve Perkins '01, Waukon, Iowa, Family Physician, Mayo Clinic Health System-LaCrosse, Wisconsin
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INDEX

- Academic awards-208
- Academic departments-50
- Academic honesty-47
- Academic philosophy-26
- Academic policies-30
- Academic programs-50
- Academic resources-201
- Academic standing-45
 - Appeals-46
 - Dismissal-38, 46
 - Probation-45
 - Suspension-38,46
 - Warning-45
- Academic suspension-46
- Academic warning-45
- Accounting courses-143
- Accounting major, BA-54
- Accounting major, BS- 56
- Accounting minor-55
- Accreditation-5
- Actuarial Science major-57
- Administrative offices-219
- Admission-11
 - Appeals-12
 - Application-11
 - Guest Students-15
 - Guidelines-11
 - Post- Baccalaureate-14
 - Transfer-13
 - International-13
- Advanced placement (AP)-12, 43
- Advising-27
- American Chemical Society certified chemistry major-72
- Anthropology courses-144
- Anthropology major/minor (see cultural anthropology)
- Appeals-
 - Admission-12
 - Dismissal (academic)-46
 - Financial Aid-23
 - Grades-31
 - Suspension (academic)-46
- Application for admission-11
- Art history minor-62
- Art courses-145
- Art major-61
- Art minor-62
- Athletic awards-213
- Athletic coaching endorsement-110
- Attendance Policy-36
- Auditing a course-39
- Awards-208
 - All-college-208
 - Athletic-213
 - Departmental-209
- Behavioral science courses-147
- Biochemistry major, BA-63
- Biochemistry major, BS-64
- Biology courses-147
- Biology major-66
- Biology minor-67
- Board fees-17
- Board of Trustees-218
- Books, cost-18
- Business management courses-149
- Business management major-68
- Business management minor-70
- Campus visit-11
- Cancellation of courses-51
- Central. . . Briefly-5
- Central College loans-25
- Cheating-47
- Chemistry courses-151
- Chemistry major, BA-71
- Chemistry major, BS-72
- Chemistry minor-71
- Chicago Semester program-207
 - Courses-199
- Civitas courses-26,153
- Classification-35
- Communication studies courses-153
- Communication studies major-74
- Communication studies minor-74
- Computer science courses-155
- Computer science major-75
- Computer science minor-76
- Computer science proficiency credit-44
- Consortia Courses-40
 - Enrollment-40
 - Billing-40
- Core requirements-26
- Costs-17
- Course descriptions-143
- Course numbering system-52
- Credit by proficiency-44
 - Computer Science-44
 - Foreign language-44
 - Mathematics-44
- Cultural anthropology courses-144
- Cultural anthropology major-59
- Cultural anthropology minor-60
- Curriculum changes-51
- Data Science courses-156
- Data Science minor-77
- Dean's list-35
- Departments-50
- Deposits-20
- Directed study-52
- Directories-218
- Directory Information-8
- Disabilities-30
- Disciplinary/departmental majors-50
- Disciplinary/departmental minors-51
- Dismissal, Academic-38,46
- Drop/ add policy/ changes in registration-35
- Drug-free campus statement-9
- Economics courses-156
- Economics major-78
- Economics minor-78
- Education, elementary major -79
- Education, art, music and physical education-82
- Education courses-157
- Education dept. admission and retention-79,82,84
- Education, middle school-81,85
- Education, secondary-84
- Elementary education, Iowa licensure-80
- Emerging scholars program-205
- Employment, Student-25
- Endorsements, teaching-51,81,83,85
- Endowed scholarships-24
- Engaged Citizen core-26,28
- Engineering courses-164
- Engineering major-86
- English courses-165
- English major-88
- English major, emphasis in writing-89
- English minor-89
- Entrepreneurship courses-168
- Entrepreneurship minor-91
- Environmental studies courses-168
- Environmental & Sustainability Studies major-92
- Environmental studies minor-94
- Examinations- 4,34
- Faculty advising-27
- Faculty and instructional staff directory-219
- Faculty emeriti directory-221
- Family Educational Rights and Privacy Act-7
 - Directory Information-8
- Federal Direct Plus Loans-24
- Federal Direct Stafford/Ford Loans-24
- Federal Pell Grants-24
- Federal SEOG-24
- Fees-18
- Final Exams- 4, 34
- Financial aid-21
 - Appeals-23
 - Employment-25
 - Grants-24
 - Incomplete grades-23
 - Loans-24
 - Repeated coursework-23
 - Satisfactory academic progress-22
 - Scholarships-23
 - Transfer students-23
 - Withdrawals-23
- Financial aid renewal-22
- Fine arts courses-168
- Failing CIV-110-39
- Foreign languages-See individual languages
- Foreign language minimum proficiency-29
- Foreign language proficiency credit-44
- French courses-169
- French & Francophone Studies major-95
- French & Francophone Studies minor-96
- GED-12
- General College Credit courses-170
- Geography courses-171
- German studies courses-171
- German studies major-97
- German studies minor-98
- Global health minor-99
- Global sustainability minor-101
- Grading system and policies-31
 - Appeal-31
 - Audit-39
 - Incomplete-31
 - Pass/NC-31
 - Withdrawal-31
- Graduation information-28,30
- Graduation requirements-28
- Graduation honors-30
- Grants-24
- Guest students-15
 - Post-secondary Enrollment Option Act (PSEO)-15
- Health sciences, pre-professional program-202
- History courses-172
- History major-103
- History minor-104
- History of Central-7
- Home schooling-12
- Honesty, academic-47
- Honors courses-174
- Honors (Latin)-30
- Honors program-205
 - Emerging scholars-205
- Housing- 12
- Incomplete grade-31
- Independent study-52
- Information systems major-105
- Information technology-201
- Interdisciplinary majors-50
- Interdisciplinary minors-51
- International Baccalaureate (IB)-43

- International Education-207
- International Education, non-Central programs-207
- International student admission-13
- International and global studies major-107
- International and global studies minor-108
- Internships-206
- Iowa licensure in elementary education-80
- Iowa Tuition Grants-24
- Kinesiology courses-174
- Kinesiology major-109
- Kinesiology minor-110
- Language proficiency credit-44
- Law, pre-professional program-203
- Leave of absence policy-37
- Liability waiver-20
- Liberal Arts Seminar courses-177
- Library, Geisler-201
- Loans-24
- Majors-50
 - Declaring-35
- Mathematics courses-178
- Mathematics major-111
- Mathematics major, data science- 112
- Mathematics major, secondary education-112
- Mathematics minor requirements-112
- Mathematics proficiency credit-44
- Merit scholarships-23
- Military refund policy-19
- Ministry, pre-professional program-132,204
- Minors-51
- Mission statement-7
- Monthly payment plan-20
- Music courses-179
 - Groups-181
 - Private lessons-182
- Music education majors-115
- Music groups/ensembles-181
- Music lessons
 - Fees-18
 - Courses-182
- Music major requirements-113
- Music minor requirements-114
- Musician Theatre courses-182
- Musical Theatre major-118
- Musical Theatre minor-119
- Natural science courses-184
- Natural science major-120
- New York, Social justice internship program-207
- Non-Central study abroad programs-207
- Non-discrimination policy-15
- No-need awards-21
- Non-retaliation statement-34
- Not-for-profit management minor-121
- Overload-17,39
- Parent Loans-24
- Pass/no credit-31
- Payment of accounts-20
 - Monthly payment plan-20
- Pell grants-24
- Philosophy courses-184
- Philosophy major-122
- Philosophy minor-123
- Physics courses-186
- Physics major-124
- Physics minor-125
- Plagiarism-47
- Political science courses-187
- Political science major-126
- Political science minor-127
- Post-baccalaureate Students-14
- Post-secondary enrollment option act-15
- Practicum-52
- Pre-athletic training-202
- Pre-chiropractic-202
- Pre-college credit-12, 43
- Pre-engineering-125,201
- Pre-health-202
- Pre-law-203
- Pre-ministry-132, 204
- Pre-nursing-203
- Pre-occupational therapy-203
- Pre-professional programs-48,202
- Probation (academic)-45
- Professional Licensure Disclosure-41
- Psychology courses-189
- Psychology major-128
- Psychology minor-128
- Re-entry-38
- Refund policies-18
- Registration-35
 - Audit-39
 - Drop/add-35
 - Overload-39
 - Pass/NC-31
 - Repeats-39
 - Withdrawal-38
- Religion courses-192
- Religious Studies major-129
 - Christian ministries emphasis-132
- Religious Studies minor-132
- Repeating a course-39
- Residency requirement-28
- Room fees-17
- Satisfactory academic progress-22
- Scholarships-23
- Secondary education endorsements-85
- Self- Designed Studies major-133
- Self-Designed Studies minor- 133
- Semester calendar-30
- Service-learning module-194,206
- Social justice internship program-207
- Social Justice Studies minor-135
- Social science major-137
- Sociology courses-194
- Sociology major-139
- Sociology minor-139
- Spanish courses-195
- Spanish major-140
- Spanish minor-140
- Special programs-206
- Strength & Conditioning courses-197
- Strength & Conditioning major-141
- Student employment-25
- Student Grievance policy-32
- Student records-7
- Student Support Services-201
- Suspension, Academic and Disciplinary-38,46
- Sustainability courses-198
- Teaching and Learning Expectations-36
- Teaching endorsements-51,81,83,85
- Textbooks, cost-18
- Theatre minor (see Musical Theatre minor)
- TOEFL exam requirements-11,13
- Transcripts-8
- Transfer of credit-43
- Transferring (Admissions)-13
- Tuition-17
- Tutoring-201
- Tutoring & Writing Center-201
- Upward Bound courses-198
- Warning, Academic-45
- Washington, D.C. courses-200
- Washington, D.C. intern program-206
- Withdrawing from a class-38
- Withdrawing from the college-38
 - Administrative-38
 - Voluntary/Medical-37
- Writing courses- 198
- Writing minor-90



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