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Office of Undergraduate Studies

Case Western Reserve University confers baccalaureate degrees based on programs offered by the faculties of the Case School of Engineering, the College of Arts and Sciences, the Frances Payne Bolton School of Nursing, the School of Medicine, and the Weatherhead School of Management. In addition, the university offers several baccalaureate programs jointly with the Cleveland Institute of Art and the Cleveland Institute of Music. The faculties and administration are dedicated to offering educational programs that enable undergraduates to achieve disciplinary literacy in one or more major fields, to acquire educational breadth through study across the natural sciences, humanities and arts, and social sciences, and to learn to think critically and to communicate effectively. Furthering the university mission, the educational programs aim to foster the development of qualities of integrity, creativity, leadership, and societal engagement.

The bachelor’s degree programs engage students in in-depth study in one field (the major), as well as general education or core requirements. Overlap among the general education and core curricula for the various bachelor’s degree programs allows students flexibility in the choice of majors and degree program. Foundational courses and seminars introduce students to modes of inquiry, thought, and communication in the natural sciences, humanities and arts, and social sciences.

Advisors for first-year students, major field advisors, other faculty, and deans assist students in selecting a field of study suited to each student’s interests and qualifications. Highly motivated and responsible students whose educational and career goals are better served through an individualized course of study may pursue academic programs of their own design through a Dean’s Approved Major.

Students with broad educational interests and goals may pursue concurrently two or more majors for the Bachelor of Arts degree or two or more majors for the Bachelor of Science in Engineering degree, or may earn two bachelor’s degrees, completing both a Bachelor of Arts degree and a Bachelor of Science degree, or fulfilling the requirements for two Bachelor of Science degrees. The Bachelor of Music degree offered by the Cleveland Institute of Music may be combined with either a Bachelor of Arts or a Bachelor of Science degree. Qualified students who wish to accelerate their undergraduate and graduate or professional studies may earn the opportunity to begin in the senior year advanced study toward a graduate or professional degree.

The university provides undergraduates with a rich variety of experiential learning opportunities off campus as well as on campus. Programs that engage students in curriculum-related employment include the Cooperative Education Program (http://engineering.case.edu/coop/), the Practicum Program (http://studentaffairs.case.edu/careers/jobs/practicums/), and internships. Study abroad, the exchange program with Fisk University, and the Washington Semester immerse students in educational environments that build global and national knowledge and perspective. Research opportunities for undergraduates abound at the university, in University Circle institutions, and in Cleveland. Individual departments offer independent study opportunities to motivated and qualified students; some departments offer courses that incorporate practical field experience or community service. The location of the university in University Circle, with its outstanding array of cultural, educational, and health care institutions, and the proximity and accessibility of the university’s various professional schools and their facilities enable undergraduates to draw upon diverse and distinctive resources to enrich their education.

Administration

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Pre-Law Advisor

Steven P. Scherger, MA  
(The Ohio State University)  
Director of Health Career Advising
Case School of Engineering Undergraduate Degree Requirements

Bachelor of Science in Engineering Degree

(Case School of Engineering)

Candidates for the Bachelor of Science in Engineering (BSE) degree, in addition to meeting the general requirements for bachelor’s degrees as described above, must also complete the following requirements:

1. A minimum of 128-133 hours as specified by the requirements for each BSE program.
2. The SAGES Engineering Core Curriculum.
3. The requirements for the specific engineering major as presented in this bulletin in the section devoted to each department or program.

Major Fields Available for the Bachelor of Science in Engineering degree:

- Aerospace Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Engineering Physics
- Materials Science and Engineering
- Mechanical Engineering
- Polymer Science and Engineering
- Systems and Control Engineering
- Engineering (undesignated)

With the exception of the undesignated major in engineering, all of the engineering programs listed above are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

Bachelor of Science in Computer Science Degree

(Case School of Engineering)

Candidates for the Bachelor of Science in Computer Science degree, in addition to meeting the general requirements for bachelor’s degrees as described above, must also complete the following requirements:

1. A minimum of 127 hours.
2. The SAGES Engineering Core Curriculum, with the exception of ENGR 200, ENGR 210 and ENGR 225.
3. The requirements for the computer science Bachelor of Science major as presented in this bulletin.

SAGES Engineering Core Curriculum of the Case School of Engineering

The SAGES Engineering Core curriculum of the Case School of Engineering provides a foundation in mathematics and sciences for programs in engineering and in computer science leading to the Bachelor of Science degree. The Engineering Core Curriculum is also designed to develop communication skills and to provide a body of work in the humanities and social sciences.

SAGES is an innovative undergraduate experience designed to establish foundations for academic inquiry. Students fulfill their Case School of Engineering General Education Requirements with a sequence of specially developed seminars and selected courses. Course credit earned by Advanced Placement, International Baccalaureate, proficiency examinations, and transfer may be used to satisfy general education requirements.
SAGES Program Seminars

The First Seminar*

(4 semester hours, to be taken in the first semester of enrollment)

The First Seminar focuses on the development of critical thinking and communication skills through the use of a variety of approaches, media, and perspectives to explore the human mind and the nature of inquiry. This course is designed to strengthen writing and analytical skills while building a foundation in ethics, information literacy, and cultural diversity. Select from:

- First Seminar: FSCC 100 First Seminar
- First Seminar: Natural World (FSNA 1xx)
- First Seminar: Social World (FSSO 1xx)
- First Seminar: Symbolic World (FSSY 1xx)

* Transfer Students only: Transfer students who have completed the English composition/expository writing requirement with a grade of C or higher at the college/university at which they previously matriculated will receive transfer credit for FSCC T100 (3 – 6 semester hours) and will be required to complete a supplemental 1-semester hour SAGES introductory seminar – FSTS 100 SAGES Transfer Supplement.

University Seminars

(6 semester hours, minimum of two seminars, to be completed in the first two years of enrollment as specified below)

After completion of the First Seminar with a passing evaluative grade, students must complete two University Seminars, with each seminar selected from a different thematic group and from a thematic group different from that of the student’s First Seminar. [Students already enrolled under the SAGES Program or who matriculate as undergraduate degree candidates prior to August 2012 must complete two seminars from different thematic groups; one of these may fall in the same thematic group as the student’s First Seminar.] Each University Seminar explores one of three themes, with the content determined according to the interests of the faculty. University Seminars provide continued experience in critical reading, writing, and oral communication as well as information literacy, ethics, and cultural diversity. Select from:

- University Seminar: Thinking About the Natural World (USNA 2xx)
- University Seminar: Thinking About the Social World (USSO 2xx)
- University Seminar: Thinking About the Symbolic World (USSY 2xx)

University Composition Requirement

Students develop a Writing Portfolio comprised of final graded writing assignments from the First Seminar and University Seminars. The Writing Portfolio is submitted for evaluation after completing the final University Seminar.

Department Seminar

(3 semester hours)

The Department Seminar includes seminar-based discussion as well as instruction and experience in the kinds of writing characteristic of the Department Seminar’s discipline. The Department Seminar may be taken in the department of the student’s major or in another department. A course used to fulfill the Department Seminar requirement may not also be used to fulfill a Breadth Requirement.

Senior Capstone

(3 – 6 semester hours)

The Senior Capstone assimilates the knowledge and skills gained throughout the educational process. Students engage in a unique one or two semester experience designed in consultation with a faculty member. Each Senior Capstone must include key elements:

1. Demonstration of critical thinking and writing skills;
2. Regular oversight by the Capstone advisor;
3. Periodic reporting of progress;
4. Regular writing (e.g. drafts, progress reports, critiques) throughout the project including a final written report which may be a thesis or equivalent document associated with the project or activity (e.g., such pursuits as
performance, experiment, live case analysis, or creative writing), as approved by the department of capstone origin;

5. Oral reports including a final public presentation at the Senior Capstone Fair, a conference, a performance, a public lecture, a teaching presentation, or another setting, as approved by the department of capstone origin.

Courses meeting this requirement include the designation "Approved SAGES Capstone" in their course descriptions. Some majors include and specify a senior capstone.

Physical Education

(Must total 2 full semesters at zero credits)

Students choose from half- and full-semester course offerings to be completed in the first year.

Mathematics, Sciences, and Engineering Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 121</td>
<td>Calculus for Science and Engineering I</td>
</tr>
<tr>
<td>MATH 122</td>
<td>Calculus for Science and Engineering II</td>
</tr>
<tr>
<td>MATH 223</td>
<td>Calculus for Science and Engineering III</td>
</tr>
<tr>
<td>MATH 224</td>
<td>Elementary Differential Equations</td>
</tr>
<tr>
<td>CHEM 111</td>
<td>Principles of Chemistry for Engineers</td>
</tr>
<tr>
<td>PHYS 121</td>
<td>General Physics I - Mechanics</td>
</tr>
<tr>
<td>PHYS 122</td>
<td>General Physics II - Electricity and Magnetism</td>
</tr>
<tr>
<td>ENGR 131</td>
<td>Elementary Computer Programming</td>
</tr>
<tr>
<td>ENGR 145</td>
<td>Chemistry of Materials</td>
</tr>
<tr>
<td>ENGR 225</td>
<td>Thermodynamics, Fluid Dynamics, Heat and Mass Transfer</td>
</tr>
<tr>
<td>ENGR 398</td>
<td>Professional Communication for Engineers</td>
</tr>
<tr>
<td>EMSE 201</td>
<td>Introduction to Materials Science and Engineering</td>
</tr>
</tbody>
</table>

Total Units: 44


Natural Sciences, Mathematics, or Statistics Requirement

Course designated by major department (3 semester hours)

Breadth Requirements– Humanities and Social Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 398</td>
<td>Professional Communication for Engineers</td>
</tr>
<tr>
<td>ENGR 398</td>
<td>Professional Communication for Engineers</td>
</tr>
</tbody>
</table>

Twelve semester hours comprised of 3 or 4 semester hour courses

Total Units: 15

* Humanities: Arabic (ARAB), Art History (ARTH), Art Studio (ARTS), Chinese (CHIN), Classics (CLSC), Dance (DANC), English (ENGL), French (FRCH), German (GRMN), Greek (GREK), Hebrew (HBRW), History (HSTY), Italian (ITAL), Japanese (JAPN), Latin (LATN), Music - General (MUGN), Music - History (MUHI), Music - Theory (MUTH), Philosophy (PHIL), Portuguese (PORT), Religious Studies (RLGN), Russian (RUSN), Spanish (SPAN), Theater (THTR), World Literature (WLIT)

and/or

Social Sciences: Anthropology (ANTH), Cognitive Science (COGS), Communication Sciences (COSI), Economics (ECON), Political Science (POSC), Psychology (PSCL), Sociology (SOCI)
College of Arts and Sciences Undergraduate Degree Requirements

Bachelor of Arts Degree

(College of Arts and Sciences)

Candidates for the Bachelor of Arts (BA) degree, in addition to meeting the general requirements for bachelor's degrees, must also complete the following requirements:

1. A minimum of 120 semester hours earned.

2. No more than 42 hours beyond the 100-level in any one department may be applied to the 120 hour total.

3. At least 90 semester hours in arts and sciences. These credits may be drawn from those offered by the College of Arts and Sciences, as well as those in economics, biochemistry, nutrition and computer science. (Students completing both a BA and BS degree are exempted from six hours of the 90 hour arts and sciences requirement for the BA.)

4. A minimum of 30 semester hours of courses at the 300-400 level.

5. The SAGES General Education Requirements of the College of Arts and Sciences.

6. The requirements for a major as specified in this bulletin for each department or program. A major requires a minimum of 30 semester hours, at least 24 of which are taken in the major department or program. For all courses taken in the major department and for which grades are averaged, and for all courses taken to satisfy major requirements and for which grades are averaged, a BA candidate must earn a minimum cumulative average of 2.000. Major requirements include all required and elective work completed in the major department combined with required courses completed in related fields. Transfer students must complete at Case Western Reserve University at least half the hours required in the major department.

Major Concentrations Available for the Bachelor of Arts degree:

- American Studies*
- Anthropology
- Art History
- Asian Studies
- Astronomy
- Biochemistry
- Biology
- Chemistry
- Classics
- Cognitive Science
- Communication Sciences
- Computer Science
- Dance
- Economics
- English
- Environmental Geology
- Environmental Studies*
- Evolutionary Biology*
- French
- French and Francophone Studies
- Geological Sciences
- German
- German Studies
- Gerontological Studies*
- History
- History and Philosophy of Science
- International Studies
- Japanese Studies
- Mathematics
- Music
• Natural Sciences*
• Nutrition
• Nutritional Biochemistry and Metabolism
• Philosophy
• Physics
• Political Science
• Pre-Architecture*
• Psychology
• Religious Studies
• Sociology
• Spanish
• Statistics
• Teacher Education*
• Theater Arts
• Women’s and Gender Studies
• World Literature

Footnotes

* May be taken only as a second major.

Any student interested in developing for the BA a major of his or her own design may submit, before the end of the sophomore year, a program proposal to the Office of Undergraduate Studies for approval by the Dean’s Committee.

Bachelor of Science Degree

(College of Arts and Sciences)

Candidates for the Bachelor of Science degrees, in addition to meeting the general requirements for bachelor’s degrees, must also complete the following requirements:

1. A minimum of 120-133 hours as specified by the requirements for each BS program.

2. A minimum of 30 semester hours of courses at the 300-400 level.

3. The SAGES General Education Requirements of the College of Arts and Sciences. For some BS programs, the SAGES General Education

Requirements of the Arts and Sciences have been modified and incorporated into the degree requirements as presented in this bulletin in the section devoted to each department or program.

4. The requirements for a major field as presented in this bulletin in the section devoted to each department or program. For all courses taken in the major department and for which grades are averaged, and for all courses taken to satisfy major requirements and for which grades are averaged, a candidate for a BS from the College of Arts and Sciences must earn a minimum cumulative average of 2.000. Major requirements include all required and elective work completed in the major department combined with required courses completed in related fields. Transfer students must complete at Case Western Reserve University at least half the hours required for the major.

Major Concentrations for the Bachelor of Science degree:

• Applied Mathematics
• Art Education
• Astronomy
• Biochemistry
• Biology
• Chemistry
• Geological Sciences
• Mathematics
• Mathematics and Physics
• Music Education
• Nutrition
• Nutritional Biochemistry and Metabolism
• Physics
• Statistics
• Systems Biology
SAGES General Education Requirements of the College of Arts and Sciences

SAGES is an innovative undergraduate experience designed to establish foundations for academic inquiry. Students fulfill their College of Arts and Sciences General Education Requirements with a sequence of specially developed seminars and selected courses. Course credit earned by Advanced Placement, International Baccalaureate, proficiency examinations, and transfer may be used to satisfy general education requirements.

SAGES Program Seminars

The First Seminar*

(4 semester hours, to be taken in the first semester of enrollment)

The First Seminar focuses on the development of critical thinking and communication skills through the use of a variety of approaches, media, and perspectives to explore the human mind and the nature of inquiry. This course is designed to strengthen writing and analytical skills while building a foundation in ethics, information literacy, and cultural diversity. Select from:

- First Seminar: FSCC 100 First Seminar
- First Seminar: Natural World (FSNA 1xx)
- First Seminar: Social World (FSSO 1xx)
- First Seminar: Symbolic World (FSSY 1xx)

* Transfer Students only: Transfer students who have completed the English composition/expository writing requirement with a grade of C or higher at the college/university at which they previously matriculated will receive transfer credit for FSCC T100 (3 – 6 semester hours) and will be required to complete a supplemental 1-semester hour SAGES introductory seminar – FSTS 100 SAGES Transfer Supplement.

University Seminars

(6 semester hours, minimum of two seminars, to be completed in the first two years of enrollment as specified below)

After completion of the First Seminar with a passing evaluative grade, students must complete two University Seminars, with each seminar selected from a different thematic group and from a thematic group different from that of the student’s First Seminar. [Students already enrolled under the SAGES Program or who matriculate as undergraduate degree candidates prior to August 2012 must complete two seminars from different thematic groups; one of these may fall in the same thematic group as the student’s First Seminar.] Each University Seminar explores one of three themes, with the content determined according to the interests of the faculty. University Seminars provide continued experience in critical reading, writing, and oral communication as well as information literacy, ethics, and cultural diversity. Select from:

- University Seminar: Thinking About the Natural World (USNA 2xx)
- University Seminar: Thinking About the Social World (USSO 2xx)
- University Seminar: Thinking About the Symbolic World (USSY 2xx)

University Composition Requirement

Students develop a Writing Portfolio comprised of final graded writing assignments from the First Seminar and University Seminars. The Writing Portfolio is submitted for evaluation after completing the final University seminar.

Department Seminar

(3 semester hours)

The Department Seminar includes seminar-based discussion as well as instruction and experience in the kinds of writing characteristic of the Department Seminar’s discipline. The Department Seminar may be taken in the department of the student’s major or in another department. A course used to fulfill the Department Seminar requirement may not also be used to fulfill a Breadth Requirement.

Senior Capstone

(3 - 6 semester hours)

The Senior Capstone assimilates the knowledge and skills gained throughout the educational process. Students engage in a unique one or two semester experience designed in consultation with
a faculty member. Each Senior Capstone must include key elements:

1. Demonstration of critical thinking and writing skills;
2. Regular oversight by the Capstone advisor;
3. Periodic reporting of progress;
4. Regular writing (e.g. drafts, progress reports, critiques) throughout the project including a final written report which may be a thesis or equivalent document associated with the project or activity (e.g., such pursuits as performance, experiment, live case analysis, or creative writing), as approved by the department of capstone origin;
5. Oral reports including a final public presentation at the Senior Capstone Fair, a conference, a performance, a public lecture, a teaching presentation, or another setting, as approved by the department of capstone origin.

Courses meeting this requirement include the designation “Approved SAGES Capstone” in their course descriptions. Some majors include and specify a senior capstone.

**Physical Education**

(Must total 2 full semesters at zero credits)

Students choose from half- and full-semester course offerings to be completed in the first year.

**Breadth Requirements**

(18 semester hours – minimum of six 3- or 4-semester hour courses)

NOTE: Two courses used to fulfill requirements for the major may be used also to fulfill the breadth requirements.

**Arts and Humanities**

(6 - 8 semester hours)

Two 3- or 4-semester hour Arts and Humanities courses. Select from:

- Arabic (ARAB)
- Art History (ARTH)
- Art Studio (ARTS)
- Chinese (CHIN)
- Classics (CLSC)
- Dance (DANC)
- English (ENGL)
- French (FRCH)
- German (GRMN)
- Greek (GREK)
- Hebrew (HBRW)
- History (HSTY)
- Italian (ITAL)
- Japanese (JAPN)
- Latin (LATN)
- Music - General (MUGN)
- Music - History (MUHI)
- Music - Theory (MUTH)
- Philosophy (PHIL)
- Portuguese (PORT)
- Religious Studies (RLGN)
- Russian (RUSN)
- Spanish (SPAN)
- Theater (THTR)
- World Literature (WLIT)

**Natural and Mathematical Sciences**

(6 - 8 semester hours)

Two 3- or 4-semester hour Natural and Mathematical Science courses. Select from:

- Astronomy (ASTR)
- Biochemistry (BIOC)
- Biology (BIOL)
- Chemistry (CHEM)
- Geology (GEOL)
• Mathematics (MATH)
• Nutrition (NTRN)
• Physics (PHYS)
• Statistics (STAT)

Social Sciences
(6 semester hours)
Two 3-semester hour Social Science courses. Select from:
• Anthropology (ANTH)
• Cognitive Science (COGS)
• Communication Sciences (COSI)
• Economics (ECON)
• Political Science (POSC)
• Psychology (PSCL)
• Sociology (SOCI)

Quantitative Reasoning
(3 - 4 semester hours)
Each student must complete at least one 3- or 4-semester hour course identified as a mathematical reasoning course. Such a course may also be used to fulfill a major requirement and/or one of the breadth requirements. Select from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 233</td>
<td>Introduction to Jewish Folklore</td>
<td>3</td>
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<tr>
<td>ANTH 314</td>
<td>Cultures of the United States</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 352</td>
<td>Japanese Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 353</td>
<td>Chinese Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 356</td>
<td>Mediterranean Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 357</td>
<td>Native American Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 388</td>
<td>Globalization, Development and Underdevelopment: Anthropological Persp</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 104</td>
<td>Introduction of Asian Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 203</td>
<td>The Arts of Asia</td>
<td>3</td>
</tr>
<tr>
<td>ARTH/JDST 220</td>
<td>Jewish Traditional Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 290</td>
<td>Introduction to the Art of Sub-Saharan Africa</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 293</td>
<td>A World Art History</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 302</td>
<td>Buddhist Art in Asia</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 340</td>
<td>Issues in the Art of China</td>
<td>3</td>
</tr>
<tr>
<td>ASIA/HSTY 133</td>
<td>Introduction to Chinese History and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>ASIA 134</td>
<td>Introduction to Japanese History and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>ASIA 284</td>
<td>Daily Life in Imperial China</td>
<td>3</td>
</tr>
<tr>
<td>ASIA/WLIT 235</td>
<td>Asian Cinema and Drama</td>
<td>3</td>
</tr>
<tr>
<td>CLSC/HSTY 320</td>
<td>Departmental Seminar: Alexander the Great</td>
<td>3</td>
</tr>
<tr>
<td>COSI 260</td>
<td>Multicultural Aspects of Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>DANC/RLGN 237</td>
<td>Religion and Dance in South Asia</td>
<td>3</td>
</tr>
<tr>
<td>ENGL/HSTY/PHIL/RLGN 270/SOCI 201/WGST 201</td>
<td>Introduction to Gender Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL/WLIT 363H</td>
<td>African-American Literature</td>
<td>3</td>
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<tr>
<td>ENGL/WLIT 365E</td>
<td>The Immigrant Experience</td>
<td>3</td>
</tr>
<tr>
<td>ENGL/WLIT 365N</td>
<td>Topics in African-American Literature</td>
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<td>ENGL/WLIT 365Q</td>
<td>Post-Colonial Literature</td>
<td>3</td>
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<td>ENGL/WLIT 366G</td>
<td>Minority Literatures</td>
<td>3</td>
</tr>
<tr>
<td>ETHS/RLGN 222</td>
<td>African-American Religions</td>
<td>3</td>
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<td>ETHS 235</td>
<td>Theater and Identity</td>
<td>3</td>
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<tr>
<td>ETHS/HSTY/JDST 218</td>
<td>Jews in Early Modern Europe</td>
<td>3</td>
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<tr>
<td>ETHS/RLGN 251</td>
<td>Perspectives in Ethnicity, Race, Religion and Gender</td>
<td>3</td>
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<tr>
<td>ETHS 251A</td>
<td>Oral Performances and Ethnic Identities</td>
<td>3</td>
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<tr>
<td>ETHS/HSTY 252A</td>
<td>Introduction to African-American Studies</td>
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<tr>
<td>ETHS 252B/HSTY 259</td>
<td>Introduction to Latina/o Studies</td>
<td>3</td>
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<tr>
<td>ETHS/RLGN 259</td>
<td>Tricksters, Conjurers, and Gods: Religion in West Africa and Diaspora</td>
<td>3</td>
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<tr>
<td>ETHS/WGST 339/RLGN 338</td>
<td>Black Women and Religion</td>
<td>3</td>
</tr>
<tr>
<td>ETHS/SPAN/WLIT 385</td>
<td>Hispanic Literature in Translation</td>
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<tr>
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<tr>
<td>ETHS/WGST 301</td>
<td>Women, Creativity and the Arts</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 253A/HSTY 135</td>
<td>Introduction to Modern African History</td>
<td>3</td>
</tr>
<tr>
<td>ETHS/WGST 352</td>
<td>African Feminisms</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 287</td>
<td>State, War, Drugs, and Coffee in Colombia: History of Modern Colombia</td>
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<tr>
<td>ETHS/FRCH/WLIT 295</td>
<td>The Francophone World</td>
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<tr>
<td>ETHS 253B/HSTY 136</td>
<td>Introduction to Latin American History</td>
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<td>ETHS 316/</td>
<td>African Political Thought</td>
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<tr>
<td>ETHS/FRCH/WLIT/WGST 335</td>
<td>Women in Developing Countries</td>
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<td>ETHS/HSTY 336</td>
<td>The Struggle for Justice in Latin America</td>
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<td>ETHS/FRCH/WLIT 338</td>
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<td>ETHS/POSC 369</td>
<td>Current Controversies in Latin American Politics and Society</td>
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<tr>
<td>ETHS 394</td>
<td>The Subaltern and The Poetics of War in Africa</td>
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<td>ETHS/RLGN 222</td>
<td>African-American Religions</td>
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<tr>
<td>FRCH/WLIT 308</td>
<td>The Paris Experience</td>
<td>3</td>
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<td>FRCH 375</td>
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<tr>
<td>HSTY 113</td>
<td>Introduction to Modern World History</td>
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<tr>
<td>HSTY 135/</td>
<td>Introduction to Modern African History</td>
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<td>ETHS 253A</td>
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<tr>
<td>HSTY 235</td>
<td>Pirates in Early Modern World History</td>
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<tr>
<td>HSTY 258</td>
<td>History of Southern Africa</td>
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<td>HSTY/ETHS 260</td>
<td>U.S. Slavery and Emancipation</td>
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<td>HSTY 261</td>
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<td>HSTY/ETHS 262</td>
<td>African-American History Since 1945</td>
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<td>HSTY 268</td>
<td>Colonialism in Africa</td>
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<tr>
<td>HSTY 282/</td>
<td>Modern China</td>
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<tr>
<td>ETHS 280</td>
<td>History of Modern Mexico</td>
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<td>HSTY 285</td>
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<td>HSTY 336</td>
<td>The Struggle for Justice in Latin America</td>
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<td>HSTY 328</td>
<td>Comparative Perspectives on Museum and Archive History and Practice</td>
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<tr>
<td>HSTY 333</td>
<td>Reading Capital: Political Economy in the Age of Modern Industry</td>
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<td>HSTY/ETHS 340</td>
<td>A History of Workers in the United States</td>
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<td>Guns, Germs, and Steel</td>
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<td>HSTY/JDST/RLGN 371</td>
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<td>HSTY 383</td>
<td>The People’s Republic of China</td>
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<td>HSTY/ETHS 393</td>
<td>Advanced Readings in the History of Race</td>
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<td>JDST 201</td>
<td>Introduction to Judaic Studies</td>
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<td>JDST 220</td>
<td>Jewish Traditional Art and Architecture</td>
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<td>JDST 228</td>
<td>The Jewish Image in Popular Film</td>
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<td>JDST 233</td>
<td>Introduction to Jewish Folklore</td>
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<tr>
<td>JDST/RLGN 280</td>
<td>Religion and Politics in the Middle East</td>
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<td>MUED 305</td>
<td>World Music in Education</td>
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<tr>
<td>MUHI 310</td>
<td>Music Cultures of the World: Music of Asia and Africa</td>
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<tr>
<td>MUHI 311</td>
<td>Music Cultures of the World II: Music of the Americas</td>
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<tr>
<td>PHIL/RLGN 221</td>
<td>Indian Philosophy</td>
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<td>ORBH/WGST 370</td>
<td>Women in Organizations</td>
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<td>ORBH 370</td>
<td>Women in Organizations</td>
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<td>PHIL 356</td>
<td>Comparative Philosophy</td>
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<td>POSC 362</td>
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<td>POSC 364</td>
<td>Dictatorship and Democracy in Modern Latin America</td>
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<td>POSC 366</td>
<td>Government and Politics of Africa</td>
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<td>POSC 370C</td>
<td>The United States and Asia</td>
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<td>POSC 370D</td>
<td>The Politics of China</td>
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<td>POSC 370K</td>
<td>Nationalism, Ethnicity, and Religion in World Politics</td>
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<td>POSC 374</td>
<td>Politics of Development in the Global South</td>
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<td>POSC 377</td>
<td>Politics of Russia</td>
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<td>Introduction to Middle East Politics</td>
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<td>State and War in Africa and the Middle East</td>
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<td>RLGN 190</td>
<td>Sacred Space in Western Religions</td>
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<td>RLGN 204</td>
<td>Introduction to Asian Religions</td>
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<td>RLGN 206</td>
<td>Religion and Ecology</td>
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<td>RLGN 208</td>
<td>Introduction to Western Religions</td>
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<td>RLGN 215</td>
<td>Religion In America</td>
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<td>RLGN 216</td>
<td>Hinduism I: The Vedic, Epic and Puranic Periods</td>
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<td>Buddhism</td>
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<td>RLGN 218</td>
<td>Islam: Faith and Politics</td>
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<td>RLGN 219</td>
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<td>RLGN 223</td>
<td>Religious Roots of Conflict in the Middle East</td>
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<td>RLGN 233</td>
<td>Introduction to Jewish Folklore</td>
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<td>RLGN 235</td>
<td>Religion and Visual Culture</td>
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<td>Alternative Altars: Folk Religion in America</td>
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<td>RLGN 251</td>
<td>Perspectives in Ethnicity, Race, Religion and Gender</td>
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<td>RLGN 254</td>
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<td>RLGN 260</td>
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<td>RLGN 273</td>
<td>Religion and Healing in the United States</td>
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<td>RLGN 280</td>
<td>Religion and Politics in the Middle East</td>
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<td>RLGN 283</td>
<td>Muhammad: The Man and the Prophet</td>
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<td>RLGN 284</td>
<td>Jesus Through Islamic Lens</td>
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<td>RLGN 303</td>
<td>Japanese Religions</td>
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<tr>
<td>SOCI 302</td>
<td>Race and Ethnic Minorities in American Society</td>
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<tr>
<td>SOCI/366</td>
<td>Interpreting Buddhist Texts</td>
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<td>SOCI 312</td>
<td>The Mythical Trickster</td>
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<td>SASS 375</td>
<td>International Travel and Study Seminar</td>
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<td>Race and Ethnic Minorities in American Society</td>
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<td>SPAN 315</td>
<td>Latin American Cultural Conflicts</td>
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<td>SPAN 317</td>
<td>Contemporary Latin American Culture</td>
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<td>SPAN 339</td>
<td>Latin American Poetic Revolt</td>
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<td>SPAN 325</td>
<td>Hispanic Intellectuals and Society: A Critical Approach</td>
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<td>SPAN 339</td>
<td>Latin American Poetic Revolt</td>
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<td>SPAN 342</td>
<td>Latin American Feminist Voices</td>
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<td>SPAN 343</td>
<td>The New Drama in Latin American</td>
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<tr>
<td>SPAN 345</td>
<td>Hispanic Autobiographical Writing</td>
<td>3</td>
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<tr>
<td>SPAN 356</td>
<td>Afro-Hispanic Literature</td>
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<tr>
<td>WLIT 355</td>
<td>Modern Japanese Novels and the West</td>
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<tr>
<td>Any 200 or 300-level course in Arabic, Chinese, Hebrew, Japanese, or Russian</td>
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</tbody>
</table>
Frances Payne Bolton School of Nursing Undergraduate Degree Requirements

Bachelor of Science in Nursing Degree

(Frances Payne Bolton School of Nursing)

Candidates for the Bachelor of Science in Nursing (BSN) degree, in addition to meeting the general requirements for bachelor’s degrees as described above, must also complete the following requirements:

1. A minimum of 126 hours
2. The SAGES General Education Requirements for the School of Nursing
3. The requirements for the major in nursing as presented in this bulletin
4. For all courses taken in nursing and science, a minimum grade of C

SAGES General Education Requirements of the Frances Payne Bolton School of Nursing

The SAGES General Education Requirements of the Frances Payne Bolton School of Nursing are based upon the SAGES General Education Requirements of the College of Arts and Sciences, and provide a broad educational foundation for the Bachelor of Science in Nursing program.

SAGES is an innovative undergraduate experience designed to establish foundations for academic inquiry. Students fulfill their Frances Payne Bolton School of Nursing General Education Requirements with a sequence of specially developed seminars and selected courses. Course credit earned by Advanced Placement, International Baccalaureate, proficiency examinations, and transfer may be used to satisfy general education requirements.

SAGES Program Seminars

The First Seminar*

(4 semester hours, to be taken in the first semester of enrollment)

The First Seminar focuses on the development of critical thinking and communication skills through the use of a variety of approaches, media, and perspectives to explore the human mind and the nature of inquiry. This course is designed to strengthen writing and analytical skills while building a foundation in ethics, information literacy, and cultural diversity. Select from:

- First Seminar: FSCC 100 First Seminar
- First Seminar: Natural World (FSNA 1xx)
- First Seminar: Social World (FSSO 1xx)
- First Seminar: Symbolic World (FSSY 1xx)

* Transfer Students only: Transfer students who have completed the English composition/expository writing requirement with a grade of C or higher at the college/university at which they previously matriculated will receive transfer credit for FSCC T100 (3 – 6 semester hours) and will be required to complete a supplemental 1-semester hour SAGES introductory seminar – FSTS 100 SAGES Transfer Supplement.

University Seminars

(6 semester hours, minimum of two seminars, to be completed in the first two years of enrollment as specified below)

After completion of the First Seminar with a passing evaluative grade, students must complete two University Seminars, with each seminar selected from a different thematic group and from a thematic group different from that of the student’s First Seminar. [Students already enrolled under the SAGES Program or who matriculate as undergraduate degree candidates prior to August 2012 must complete two seminars from different thematic groups; one of these may fall in the same thematic group as the student’s First Seminar.] Each University Seminar explores one
of three themes, with the content determined according to the interests of the faculty. University Seminars provide continued experience in critical reading, writing, and oral communication as well as information literacy, ethics, and cultural diversity. Select from:

- University Seminar: Thinking About the Natural World (USNA 2xx)
- University Seminar: Thinking About the Social World (USSO 2xx)
- University Seminar: Thinking About the Symbolic World (USSY 2xx)

**University Composition Requirement**

Students develop a Writing Portfolio comprised of final graded writing assignments from the First Seminar and University Seminars. The Writing Portfolio is submitted for evaluation after completing the final University seminar.

**Department Seminar**

(3 semester hours)

The Department Seminar includes seminar-based discussion as well as instruction and experience in the kinds of writing characteristic of the Department Seminar’s discipline. The Department Seminar may be taken in the department of the student’s major or in another department. A course used to fulfill the Department Seminar Requirement may not also be used to fulfill a Breadth Requirement.

**Senior Capstone**

(3 - 6 semester hours)

The Senior Capstone assimilates the knowledge and skills gained throughout the educational process. Students engage in a unique one or two semester experience designed in consultation with a faculty member. Each Senior Capstone must include key elements:

1. Demonstration of critical thinking and writing skills;
2. Regular oversight by the Capstone advisor;
3. Periodic reporting of progress;
4. Regular writing (e.g., drafts, progress reports, critiques) throughout the project including a final written report which may be a thesis or equivalent document associated with the project or activity (e.g., such pursuits as performance, experiment, live case analysis, or creative writing), as approved by the department of capstone origin; and
5. Oral reports including a final public presentation at the Senior Capstone Fair, a conference, a performance, a public lecture, a teaching presentation, or another setting, as approved by the department of capstone origin.

Courses meeting this requirement include the designation “Approved SAGES Capstone” in their course descriptions. Some majors include and specify a senior capstone.

**Physical Education**

(Must total 2 full semesters at zero credits)

Students choose from half- and full-semester course offerings to be completed in the first year.

**Breadth Requirements**

(at least 30 semester hours – minimum of ten 3 or 4-semester hour courses)

NOTE: Two courses used to fulfill requirements for the major may be used also to fulfill the breadth requirements.

**Arts and Humanities**

(6 - 8 semester hours)

Two 3- or 4-semester hour Arts and Humanities courses. Select from:

- Arabic (ARAB)
- Art History (ARTH)
- Art Studio (ARTS)
- Chinese (CHIN)
- Classics (CLSC)
- Dance (DANC)
- English (ENGL)
- French (FRCH)
- German (GRMN)
• Greek (GREK)
• Hebrew (HBRW)
• History (HSTY)
• Italian (ITAL)
• Japanese (JAPN)
• Latin (LATN)
• Music - General (MUGN)
• Music - History (MUHI)
• Music - Theory (MUTH)
• Philosophy (PHIL)
• Portuguese (PORT)
• Religious Studies (RLGN)
• Russian (RUSN)
• Spanish (SPAN)
• Theater (THTR)
• World Literature (WLIT)

Natural and Mathematical Sciences

<table>
<thead>
<tr>
<th>Mathematical Reasoning and Analysis *</th>
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<tr>
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<td>Introduction to Statistical Analysis in the Social Sciences</td>
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<td>PSCL 282</td>
<td>Quantitative Methods in Psychology</td>
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<td>STAT 201</td>
<td>Basic Statistics for Social and Life Sciences</td>
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</table>

Natural Sciences

| BIOL 114                           | Principles of Biology |
| BIOL 116                           | Introduction to Human Anatomy and Physiology I |
| BIOL 117                           | Introduction to Human Anatomy and Physiology II |
| BIOL 119                           | Concepts for a Molecular View of Biology I |
| BIOL 121                           | Concepts for a Molecular View of Biology II |

Total Units: 18

* A student who successfully completes any one of these courses is not eligible to enroll in or receive credit for either of the other two.

Social Sciences

<table>
<thead>
<tr>
<th>SOCI 203</th>
<th>Human Development: Medical and Social *</th>
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<tbody>
<tr>
<td>Social Science course **</td>
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</tbody>
</table>

Total Units: 6

* or approved course in human growth and development

** Any 3-semester hour course selected from: Anthropology (ANTH), Cognitive Science (COGS), Communication Sciences (COSI), Economics (ECON), Political Science (POSC), Psychology (PSCL), Sociology (SOCI)
Programs Toward Graduate or Professional Degrees

Acceleration Toward Professional Degrees

Senior Year in Professional Studies at Case Western Reserve University

Students of outstanding ability and attainment who are candidates for the BA and who are admitted to professional studies in Case Western Reserve University by the end of the junior year are offered an opportunity to shorten their entire course of studies by one year through the Senior Year in Professional Studies privilege. Application should be made during the second semester of the junior year through the dean of undergraduate studies. This privilege is extended to students who are candidates for the BA and who attend the School of Dental Medicine, the School of Medicine, the Frances Payne Bolton School of Nursing, or the Mandel School of Applied Social Sciences of Case Western Reserve University.

A student granted the senior year in professional studies privilege is permitted to substitute the work of the first year in a professional school for that required during the last year in the undergraduate college. Upon the satisfactory completion of the first year's work in the professional school, the student will be granted the bachelor's degree from the College of Arts and Sciences. To be eligible for the senior year in professional studies privilege, a student must:

1. Be accepted for admission to professional studies in Case Western Reserve University.

2. Meet the following degree requirements:
   1. Completion of the SAGES General Education Requirements of the College of Arts and Sciences and the physical education requirement.
   2. Completion of three-fourths of the courses required for the major, including three-fourths of the courses required in the major department.
   3. Completion of 84 hours of arts and sciences courses. These credits may be drawn from those offered by the College of Arts and Sciences as well as those in economics, biochemistry, nutrition, or computer science.
   4. Completion of at least 90 semester hours of academic credit, of which the final 60 hours must have been in residence. A student may include in that final 60 hours no more than six semester hours earned in courses completed in other institutions, either by cross registration in regular sessions or by approved transient registration in summer sessions. (Note: Students applying for the Senior Year in Professional Studies in the School of Medicine will generally be expected to have completed at least 117 hours towards the BA degree.)

Upon admission to the program, students register in the professional school to which they have been admitted and are subject to the policies, rules and regulations of the professional school. They may, however, continue to receive merit-based undergraduate scholarships and may continue to reside in undergraduate housing during what would normally be their senior year of undergraduate work.

For information, contact the Office of Undergraduate Studies, 357 Sears Bldg., 216-368-2928, e-mail: ugstudies@case.edu.

Senior Year in Absentia Privilege for Students of Medicine and Dentistry

Students of outstanding ability and attainment who are candidates for the BA and are offered admission to a medical or dental school other than those at Case Western Reserve University at the end of the junior year are eligible for an opportunity to shorten their entire course of studies by one year through the Senior Year in absentia privilege. Application for this privilege should be made during the second semester of the junior year through the dean of undergraduate studies.

A student granted the Senior Year in absentia privilege is permitted to substitute the work of the first year in a professional school for that required during the last year in the undergraduate college. Upon the satisfactory completion of the first year's
work in the professional school, the student will be granted the BA from the College of Arts and Sciences. The privilege is extended to qualified students who attend medical schools in the United States or Canada approved by the Association of American Medical Colleges or dental schools in the United States approved by the American Association of Dental Schools.

To be eligible for the Senior Year in absentia privilege, a student must:

1. Attain a cumulative grade point average of at least 3.200 in all courses attempted from the date of admission as an undergraduate.

2. Meet the following degree requirements:
   1. Completion of the Arts and Sciences SAGES General Education Requirements and the physical education requirement
   2. Completion of three-fourths of the requirements for the major, including three-fourths of the courses required in the major department
   3. Completion of 84 hours of arts and sciences courses. These credits may be drawn from those offered by the College of Arts and Sciences as well as those in economics, biochemistry, nutrition, or computer science
   4. Completion of at least 90 semester hours of academic credit, of which the final 60 hours must have been in residence. A student may include in that final 60 hours no more than six semester hours earned in courses completed in other institutions, either by cross registration in regular sessions or by approved transient registration in summer sessions

For information, contact the Office of Undergraduate Studies, 357 Sears Bldg., 216-368-2928, e-mail: ugstudies@case.edu.

For Candidates for the BS in Accounting

There are two programs that integrate graduate and undergraduate work in accountancy. These programs are strongly recommended for those individuals planning to become certified accounting professionals, particularly as CPAs (Certified Public Accountants).

Joint BS in Accounting/Master of Accountancy (MAcc)

Students who are candidates for the BS in accountancy and who wish to earn a master’s degree in accountancy may apply to the BS/MAcc program. Students in the program enroll during the senior year in six hours of MAcc courses that will serve toward satisfaction of both the BS and MAcc degree requirements. Before taking graduate course work, the student must have completed all prerequisites for the course on the undergraduate level and have a “B” average in those prerequisites. Following completion of the BS, students in the program will enroll in the Weatherhead School of Management to complete an additional 30 hours of courses to satisfy MAcc degree requirements. For information, see Professor Larry Parker, 459 Peter B. Lewis Building, 216-368-2065, e-mail: larry.parker@case.edu.

Accelerated BS in Accounting/Master of Accountancy (MAcc) Program

This program allows motivated students to accelerate their pursuit of both the BS and MAcc degrees. In addition to applying six credit hours of Weatherhead graduate course work towards their undergraduate degree program, students in this program may begin taking more graduate course work before completing all of their undergraduate degree requirements. To enroll in this program, students must have:

1. Completed 90 hours of undergraduate course work
2. Completed all of the undergraduate Weatherhead SAGES General Education Requirements
3. Completed 36 hours of the Weatherhead Management requirements (including 18 hours of the required Accountancy coursework)
4. Achieved at least a 3.00 overall grade point average. Students in this program will receive both the BS and the master’s degree at the end of the program. For the first eight semesters of study, the student will register as an undergraduate in Case Western Reserve University; thereafter, students will register in the graduate professional degree program in the Weatherhead School of Management. For
Acceleration Toward Graduate Study

Integrated Graduate Studies Program

The Integrated Graduate Studies Program (IGS) is intended for highly motivated undergraduate students who are candidates for the BA and whose objective is a degree at the master’s or doctoral level. Qualified students may be admitted to graduate study for their senior year and pursue the simultaneous completion of requirements for both the master’s and bachelor’s degrees. The baccalaureate will normally be awarded upon completion of the requirements for both degrees, unless a student satisfies all BA requirements prior to completing the master’s degree requirements. Students in the IGS Program are exempted from the 42-hour restriction imposed on BA candidates for work above the 100-level in a single department. However, the exemption is granted only upon completion of the master’s degree requirements.

Eligibility requirements for participation in the Integrated Graduate Studies Program are:

1. 90 semester hours earned of which the last 60 hours must have been in residence at Case Western Reserve University
2. Completion of the SAGES General Education Requirements of the College of Arts and Sciences and the physical education requirement; students who have fulfilled all SAGES General Education Requirements except the Senior Capstone will be required to complete the capstone during their first year in the IGS program
3. Completion of three quarters of the requirements for the major concentration, including three quarters of the courses required in the major department
4. Admission to a master’s or doctoral program offered through the School of Graduate Studies

Upon admission to the program, IGS students register as students in the School of Graduate Studies and are subject to the policies, rules and regulations of the School of Graduate Studies. They may, however, continue to receive merit-based undergraduate scholarships and may continue to reside in undergraduate housing during what would normally be their senior year of undergraduate work.

For information, contact the Office of Undergraduate Studies, 357 Sears Bldg., 216-368-2928, e-mail: ugstudies@case.edu.

Integrated BS/MS in Nutrition

Admission to the Integrated BS/MS in Nutrition program is subject to the same process and requirements as admission to the Integrated Graduate Studies Program described above. Upon successful completion of the program, students earn the BS in Nutrition and the MS in Nutrition.

BS/MS Program for Candidates for the BS in Engineering, Computer Science, Mathematics, Natural Sciences and Statistics

The Integrated BS/MS Program is intended for highly motivated candidates for the BS in engineering, computer science, mathematics, natural sciences, or statistics who wish to pursue an advanced degree. Application to the BS/MS program must be made after completion of 75 semester hours of course work and prior to attaining senior status (completion of 90 semester hours). Generally, this means that a student will submit the application during his or her sixth semester of undergraduate course enrollment and will have no fewer than two semesters of remaining BS requirements to complete.

A student admitted to the program may, in the senior year, take up to nine hours of graduate courses (400 level and above) that will count towards both BS and MS requirements. The courses to be double-counted must be specified at the time of application. Courses taken prior to admission to the program cannot count towards the MS unless they are in excess of BS degree requirements and permission to use them towards the MS has been granted by the dean of graduate studies and the dean of undergraduate studies.

To be considered for the BS/MS Program, a student must:

1. submit to the School of Graduate Studies an application for admission to the program, and
2. submit to the Office of Undergraduate Studies an MS Planned Program of Study Form, showing the courses to be double-counted.
Students for whom the master’s project or thesis is a continuation and development of the senior project should register for Exxx 651 Thesis (or the appropriate project course) during the senior year and are expected to complete all other courses for the BS before enrolling in further MS course work and thesis (continuing the senior project). Students for whom the master’s thesis or project is distinct from the senior project will be expected to complete the BS degree before taking further graduate courses for the master’s degree.

Applicants in engineering or computer science should consult their departmental BS/MS advisor in the Case School of Engineering. Applicants in mathematics, natural sciences, and statistics should consult the dean of undergraduate studies.

Conditionally Guaranteed Admission to the University’s Professional Schools

The Pre-Professional Scholars Programs in medicine, dentistry, law, and social work grant to a few outstanding, entering first year undergraduates conditional commitments of admission to the appropriate professional school at Case Western Reserve University. These commitments are honored upon successful completion of the requirements established by each professional school. Students admitted to these programs are relieved of much of the anxiety and uncertainty associated with pre-professional studies. Consequently, they feel free to undertake challenging courses of study and pursue a variety of interests as they prepare for professional studies. Pre-Professional Scholars are free to choose any of the bachelor’s degrees available in the university. Participants who wish to change their career goals or apply for admission to other professional schools are free to do so.

The Six-Year Dental Program gives exceptionally able and committed entering first year undergraduates the opportunity to accelerate their undergraduate and professional studies.

Pre-Professional Scholars Program in Dentistry

Each year, approximately 10 exceptionally well-qualified high school seniors who plan to pursue careers in dentistry are offered places in the Pre-Professional Scholars Program in Dentistry. This program requires eight years: four years of successful undergraduate study and four years at the School of Dental Medicine.

Pre-Professional Scholars in Dentistry are free to choose a major in an area of interest, but must take the following courses to fulfill admission requirements of the School of Dental Medicine:

1. **Chemistry**
   - CHEM 105 Principles of Chemistry I 3
   - CHEM 106 Principles of Chemistry II 3
   - CHEM 113 Principles of Chemistry Laboratory 2
   - CHEM 223 Introductory Organic Chemistry I 3
   - CHEM 224 Introductory Organic Chemistry II 3
   - CHEM 233 Introductory Organic Chemistry Laboratory I 2
   - CHEM 234 Introductory Organic Chemistry Laboratory II 2

2. **Biology**
   - BIOL 214 & BIOL 214L Genes, Evolution and Ecology and Genes, Evolution and Ecology Lab 4
   - BIOL 215 & BIOL 215L Cells and Proteins and Cells and Proteins Laboratory 4
   - BIOL 216 & BIOL 216L Development and Physiology and Development and Physiology Lab 4

3. **Mathematics**
   - MATH 125 Math and Calculus Applications for Life, Managerial, and Social Sci I 4

4. **Physics**
   - PHYS 115 Introductory Physics I 4
   - PHYS 116 Introductory Physics II 4

They are required to take the Dental Admission Test in the junior year and achieve an acceptable level of performance on the test.

Successful progress through the program and admission to dental studies will be based on the pre-professional scholar’s continuing to fulfill expectations for outstanding personal and academic development and on the scholar’s achievement of cumulative grade point average of 3.250 or higher for his or her work overall, as well as for his or her work in the required sciences. Successful progress in the program will be determined individually and reviewed at regular intervals during the student’s undergraduate career.

Pre-Professional Scholars in Dentistry who wish to accelerate their program may apply for the senior year in professional studies privilege.

Six-Year Dental Program

Each year a few exceptionally well-qualified high school seniors who plan to pursue careers in
dentistry are offered places in the Six-Year Dental Program.

The first two years of the program are spent pursuing undergraduate studies, advised by the director of health career advising. Students are required to earn a minimum of 60 semester hours. They are required to take all of the science and mathematics courses listed above for the Pre-Professional Scholars Program in Dentistry. If Advanced Placement credit is used to satisfy some of these science requirements, a minimum of 30 semester hours in biology, chemistry, physics, and mathematics must be taken during the two years of undergraduate study. Additionally, to meet general education requirements, students must take one year of physical education, First Seminar, two University Seminars, one course in the area of Arts and Humanities, and one courses in the area of Social Sciences, and must complete a writing portfolio. To qualify for the place reserved in the School of Dental Medicine, a student in the program must achieve the following:

1. A cumulative grade point average of 3.250 or higher for all course work completed;
2. Grades of B or higher in the required courses in biology, chemistry, physics, and mathematics;
3. An average score of 18 or higher on both the academic and PAT portions of the Dental Admission Test of the American Dental Association. The test must be taken no later than April of the second year.

Pre-Professional Scholars Program in Medicine

Each year, 15 to 20 exceptionally well-qualified high school seniors who plan to pursue careers in medicine are offered places in the Pre-Professional Scholars Program in Medicine. Pre-Professional Scholars receive a conditional commitment of admission to the University Program of the Case Western Reserve University School of Medicine to be honored upon successful progress toward and completion of the bachelor’s degree. The Pre-Professional Scholars Program in Medicine requires eight years: four years of successful undergraduate study leading to the bachelor’s degree followed by four years in the University Program of the School of Medicine.

Pre-Professional Scholars in Medicine are free to choose from among all of the degree and major programs offered in the university, but must take the following courses to fulfill admission requirements of the School of Medicine:

1. **Chemistry**
   - CHEM 105 Principles of Chemistry I 3
   - CHEM 106 Principles of Chemistry II 3
   - CHEM 113 Principles of Chemistry Laboratory 2
   - CHEM 223 Introductory Organic Chemistry I 3
   - CHEM 224 Introductory Organic Chemistry II 3
   - CHEM 233 Introductory Organic Chemistry Laboratory I 2
   - CHEM 234 Introductory Organic Chemistry Laboratory II 2

2. **Biology**
* PPSP Medical students seeking admission at other medical schools are advised to take MATH 121 Calculus for Science and Engineering I/MATH 125 Math and Calculus Applications for Life, Managerial, and Social Sci I and MATH 122 Calculus for Science and Engineering II/MATH 126 Math and Calculus Applications for Life, Managerial, and Social Sci II as these courses are required by many medical schools.

Pre-Professional Scholars in Medicine are not required to take the Medical College Admission Test (MCAT) for the program. However, if they do take the MCAT, they are expected to earn 32 or higher on the exam. Program participants who have an interest in applying to any other medical schools, or who wish to be considered for a dean’s merit scholarship at the Case Western Reserve School of Medicine, should plan on taking this test.

Pre-Professional Scholars are expected to demonstrate successful progress by meeting the following levels of performance:

1. By the end of the sixth semester, Pre-Professional Scholars in Medicine are expected to attain a cumulative overall grade point average of 3.600, and to maintain that average for the rest of their undergraduate studies.

2. Pre-Professional Scholars in Medicine are expected to earn grades of B or higher in all courses in chemistry, biology and physics. By the end of the sixth semester, they should attain a cumulative grade point average of 3.600 for these courses, and should maintain this average for the rest of their undergraduate studies.

3. Pre-Professional Scholars in Medicine are expected to continue to fulfill expectations for outstanding personal development, including, but not limited to, maintaining academic integrity and adhering to the university’s standards of conduct. (All academic integrity and judicial offenses will be reported to the Case School of Medicine.)

Progress is reviewed with each student at regular intervals in the program. At the end of the third year, Pre-Professional Scholars in Medicine who have met the required levels of performance go through the normal admission procedures for the University Program of the School of Medicine, including submitting an application through the American Medical College Application Service (AMCAS) and an interview. Participants who do not meet the required levels of performance may still be admitted into the University Program of the School of Medicine, but such admission will be subject to review and approval by the School of Medicine’s Admissions Committee.

Successful completion of the Pre-Professional Scholars Program in Medicine guarantees admission only to the University Program of the School of Medicine. Students seeking admission to the Cleveland Clinic Lerner College of Medicine of the Case Western Reserve University School of Medicine must complete a separate application and will be considered in competition with all applicants for that program.

### Pre-Professional Scholars Program in Social Work

Each year, as many as ten high school seniors who plan to pursue careers in social work are offered places in the Pre-Professional Scholars Program in Social Work. The program gives a conditional commitment of admission to the Case Western Reserve University Mandel School of Applied Social Sciences to be honored upon successful completion of the bachelor’s degree.

Admission to the master’s degree program in social work at MSASS is dependent upon the following requirements:

1. Graduation from the university with a cumulative grade point average of 3.000 in the junior and senior years.

2. Completion of a minimum of 24 semester hours in the social and behavioral sciences.

3. Continued evidence of a combination of personal qualities which are considered essential for the professional practice of social work.

Pre-Professional Scholars in Social Work who wish to accelerate their program may apply for the senior year in professional studies privilege.
Application Procedures for Pre-Professional Scholars and Six-Year Dental Programs

Prospective students who wish to apply to any of the Pre-Professional Scholars Programs or to the Six-Year Dental Program should apply for admission through the Office of Undergraduate Admission of Case Western Reserve University. All forms are included within the application materials.

The application for admission, supporting test scores and high school transcript, must be submitted to the Office of Undergraduate Admission as early as possible, but no later than December 1.

Students who are admitted to the university and are also deemed eligible for consideration for one of the Pre-Professional Scholars Programs or the Six-Year Dental Program will be notified by February 1 and will be invited for interviews at the appropriate professional schools. The basis for selection for these programs will be dedication to the pursuit of the particular profession, a distinguished high school record, high scores on the college entrance examinations (ACT or SAT), a record of personal accomplishments that attests to a student’s maturity, leadership, and interpersonal skills, and an interview with an admissions officer from the appropriate professional school. Decisions on admission to the programs will be communicated on or about April 1.

Students who are not admitted to these special programs are encouraged to pursue their undergraduate studies and to apply in the normal course to the professional school of their choice, including the professional schools of Case Western Reserve University.
Undergraduate Academic Advising

Academic Advising

Academic advising is an important component of the educational program at Case Western Reserve University. Academic advisors assist students in the exploration of academic opportunities at the university and in the selection of courses. Advisors may refer students to other sources of information and assistance at Case Western Reserve. Students are expected to initiate and maintain regular contact with their advisors to address the student's curricular and career concerns, and to review progress towards graduation. Students are expected to meet with advisors when declaring a major or minor, before registering for classes each semester, and when making corrections to their academic requirements reports.

Advising during the First Year

During a student's first year at Case Western Reserve University, the faculty member instructing the student's SAGES First Seminar serves as the student's academic advisor. Students and their advisors are expected to explore the student's academic interests or concerns, as well as educational and career goals, and to seek expert information and advice about academic policies and procedures and about specific academic programs from the General Bulletin, from newsletters and websites, from the academic representatives in the majors and minors designated as first year resources, and from other sources of advice and counseling on campus. Staff in the Office of Undergraduate Studies (http://www.cwru.edu/provost/ugstudies/undstud.html), the University Career Center (http://studentaffairs.case.edu/careers/), Educational Services for Students (http://studentaffairs.case.edu/education/), the Office of Multicultural Affairs (http://studentaffairs.case.edu/multicultural/), the University Counseling Service (http://studentaffairs.case.edu/counseling/), and in specialized programs such as Co-op (http://engineering.case.edu/coop/) (co-operative education), SOURCE (http://www.cwru.edu/source/) (research and creative projects), the Office of International Affairs (study abroad), and the Center for Civic Engagement and Learning (http://studentaffairs.case.edu/civicengagement/) (community service) are available to support first year students and their advisors with publications, workshops, websites, experiential learning opportunities, and individual communications.

Advising in the Majors and Minors

Although some first year undergraduates enter with definite goals, they are not assigned to advisors in the majors until they have declared their major. Opportunities for exploration of majors and minors during the first and second semesters include a Choices Fair, departmental information sessions, and individual conversations with faculty and academic advisors. First year students who are ready to declare a major in their first year may do so beginning in November.

Students engaging in further exploration of majors are expected to declare a major no later than the end of the second year. When a student selects a specific major or minor, the academic representative assigns a faculty advisor. A choice or change of major or minor is not recorded for any student until the major or minor declaration form, bearing the signature of the student, the name of the advisor, and the signature of the department representative, has been completed and returned to the Office of Undergraduate Studies, 357 Sears Bldg.

After the first year, students who have not declared a major should consult their assigned advisor (noted in their online student information) or the academic representative of an academic department of interest for advice and schedule approval.

Advising in the Office of Undergraduate Studies

The deans and advisors in the Office of Undergraduate Studies are available to answer student and faculty questions about university rules, practices, programs, and resources and to meet with students who are interested in accelerated undergraduate to graduate and professional school programs, academic awards, and fellowship and scholarship opportunities. All students who have not declared a major should consult with their first year advisor or with one of the advisors in the Office of Undergraduate Studies for advising and schedule approval. Students with interests in health professions and/or law school are encouraged to seek advice from the director of health career advising, Steven Scherger (http://www.cwru.edu/provost/ugstudies/prehlth.htm), and the pre-law advisor, Terri Mester (http://www.case.edu/provost/ugstudies/prelaw.htm), in the Office of Undergraduate Studies.
Undergraduate Academic Policies and Procedures

Academic Regulations

All academic regulations governing undergraduates are administered by the Office of Undergraduate Studies. Academic regulations are subject to change by action of the Faculty Senate, its Committee on Undergraduate Education, and the various committees responsible for the oversight of curriculum and academic standing.

When circumstances so warrant, a student may submit to the Office of Undergraduate Studies a petition requesting an exception a specific regulation. Petition forms are available in the Office of Undergraduate Studies, 357 Sears Bldg.

Academic Grievance Policy

A student who wants to register a complaint about course instruction or evaluation should first bring the matter to the direct attention of the professor or instructor involved. If the matter is not satisfactorily resolved, the student should go to the chair of the academic department in question and seek departmental review. If neither step resolves the complaint, the student may take the matter to the faculty member’s college or school dean for final review and decision.

Academic Integrity Policy

See the Case Student Handbook for more information about the academic integrity policy.

Attendance

Students are expected to attend classes regularly. Each instructor is free to determine the extent to which absences affect the final grades of students but should make the policy regarding attendance known at the start of the course. Instructors should report excessive absences to the Office of Undergraduate Studies. Instructors who judge a student’s absences from class to be excessive may drop the student from the course with a grade of F. Instructors taking such action must notify the student’s dean in writing.

Audit

A student may audit a course with the dean’s or advisor’s approval and the consent of the instructor of the course. An auditor receives no credit for the course. Registration in a course cannot be changed from audit to credit or the reverse after the end of the drop/add period. However, a student may take for credit a course he or she audited in an earlier semester. At the beginning of the course, the student and instructor should reach agreement regarding the requirements to be met for a grade of AD. The grade of AD is entered on the student’s transcript if approved by the instructor of the course. If the instructor does not approve the grade AD, the enrollment is not posted on the transcript.

Course Loads and Overloads

In order to be classified as a full-time student, a student must enroll for a minimum of 12 semester hours. The normal full-time load is 12-19 semester hours. Eligibility for many forms of financial aid and for participation on intercollegiate, varsity sports teams requires full time status. Students registering for fewer that 12 semester hours are classified as part-time and charged tuition on the basis of the number of semester hours being taken.

Continuing students may carry 20-21 hours if they have a cumulative average of 3.200 or better. To register for 22 or 23 hours, a minimum average of 3.500 is required. Any schedule of more than 19 hours requires a dean’s approval. Graduating seniors may be approved for overloads if they need such a schedule in order to graduate at the end of the semester in question.

Course Placement

No credit will be allowed to count towards degree requirements for foreign language or mathematics courses which duplicate work taken earlier in
high school or in another institution. First year undergraduates who have questions regarding their eligibility to receive credit for foreign language or mathematics courses should see the assistant dean for first year students in the Office of Undergraduate Studies.

Course Repetition

Students have the opportunity to retake a course in which they have received an evaluative grade (A, B, C, D, or F) in order to improve their performance. When a course is repeated, the first grade will remain visible on the transcript, but will be removed from the calculation of the cumulative grade point average and the grade point average for the semester in which the course was first taken. Also, credits earned for that enrollment will be deleted. The new grade will then be used for calculation of the cumulative grade point average and the grade point average for the semester in which it was earned, regardless of whether the new grade is higher or lower than the first grade. The student’s transcript will show the comment “REPEATED: NO CREDIT AWARDED” directly below the original grade. However, if the first attempt of the course resulted in a passing grade, but the second attempt results in a failing grade, then the original grade will remain, both grades will be included in the grade point average calculation, and the student will continue to earn credit for the first attempt. Similarly, if a student withdraws from a course that is being repeated, the original grade will stand. Course repetition may be exercised according to the following conditions:

1. A student may not use the Pass/No Pass Option on a course that is being repeated.

2. An academic action that occurred under the earlier grade is neither reversed nor removed from the record as a result of a change in the semester or cumulative averages that results from the repetition of one or more courses.

3. All grades earned at Case Western Reserve University, including those grades removed as a result of the application of the course repeat policy, will be applied to the Scholarship GPA that is reviewed in order to determine retention of certain Case Western Reserve University scholarships awarded to students who matriculated prior to August 2011.

4. The course repeat option may not be exercised after a degree has been awarded.

CAUTION: Students who are the recipients of any form of federal financial aid (grants, loans, work study, etc.) and repeat a course that previously earned a passing grade must enroll for a minimum of 12 credits for which credit had not been earned previously.

Credit by Examination

Advanced Placement/International Baccalaureate Examinations

Students may earn degree credit on the basis of advanced examinations taken while in secondary school. Examinations eligible for credit and/or advanced placement include, but are not limited to College Board Advanced Placement Examinations and International Baccalaureate Higher Level Examinations. Determination of the criteria for granting credit and/or placement is made by the appropriate department. In assigning credit or granting advanced placement for credentials from outside the United States, the university is guided by the placement recommendations and grade equivalencies approved by the National Council on the Evaluation of Foreign Educational Credentials.

Proficiency Examinations

Departments within each academic unit offering undergraduate programs may choose to offer students the opportunity to earn course credit in specific courses by proficiency examination. To qualify for proficiency examination credit for a course, the student’s examination performance must demonstrate knowledge and skills at a level no lower than that of an average student who successfully completes the course. Upon notification from the academic department, the Office of Undergraduate Studies will post credit for the course on the transcript. The grade will be recorded as PR, and will not be included in a student’s grade point average.

Enrollment Changes

Drop/Add

Changes in course schedules must be submitted to the Registrar’s Office using the Student Information System or a drop/add form before the end of the second week of classes during the fall and spring semesters and on or before the second day of classes during the summer session.
Withdrawal from a Course

The First Undergraduate Year:

For the first two semesters of enrollment, matriculated students who are beginning their college studies may withdraw from a course at any time during the semester, but no later than the last day of classes. Any course for which a grade of W is assigned will be deleted from the transcript at the end of the semester. This policy is not available for transfer students and does not apply to the summer session.

After the First Undergraduate Year:

A student may withdraw from a course no later than the end of the 11th week of the semester and receive a grade of W. In extenuating circumstances, a student may petition for permission to withdraw from a course after the final date and receive a W. The grade of W will be posted on the student’s transcript.

For all course withdrawals:

Students in good academic standing (i.e., not on probation, probation incomplete, or continued on probation) may withdraw from courses through the Student Information System, provided that this does not take them to be actively enrolled in fewer than 12 credit hours. All other course withdrawals (those by students who are not in good standing and those that take a student below 12 credit hours of active enrollments) must be transmitted by the student to the Registrar’s Office on the appropriate form, signed by a dean in the Office of Undergraduate Studies. Failure to attend class, or providing notice only to the instructor, does not constitute an official withdrawal from a course. Such an unofficial withdrawal normally will result in the student’s being assigned the grade of F.

Withdrawal from the University

To withdraw from the university during a semester or session, a student must complete an official withdrawal form in the Office of Undergraduate Studies. If unable to complete the withdrawal in person, the student must send written notification to the Office of Undergraduate Studies. If the withdrawal is necessary for reasons of health, a statement from the student’s physician to the University Health Service may be required as a condition of readmission. Grades of WD will be assigned in all courses in which a student is registered at the time of withdrawal, provided that a student follows the procedures stated above. Failure to attend classes or notification of instructors only, does not constitute withdrawal from the university. A student who ceases to attend or otherwise participate in courses without officially withdrawing will be assigned the grade F for each course in which he or she is enrolled.

Students who do not plan to return for the following semester must notify the Office of Undergraduate Studies, 357 Sears Bldg., 216-368-2928, e-mail: ugstudies@case.edu, in person or in writing.

Final Examinations

Final examinations normally are required in all courses and must be given during the final examination period at the time assigned by the Registrar; they may not be given during the final week of classes or on Reading Days. Any exception must be approved by the dean of undergraduate studies.

No student will be required to take more than two final examinations on a single day. A student who has three final examinations scheduled for a single day should go to the Office of Undergraduate Studies and obtain the assistance of the dean in arranging to take one of those examinations on an alternative day during the final examination period. Similarly, a student with conflicting examinations should seek the assistance of the dean of undergraduate studies in arranging to have the time of one examination changed.

A student must explain immediately and in writing to the dean of undergraduate studies an absence from a final examination. If the explanation is acceptable, the dean will authorize the assignment of the grade Incomplete and the administration of a make-up examination by the instructor. In the event of an unexcused absence from a final examination, the instructor should assign the student a final grade that assumes a grade of zero on the final examination and is consistent with the grading policy established for the course.

Promotion

The standards for promotion are:

• To the sophomore class, 27 hours completed
• To the junior class, 60 hours completed
• To the senior class, 90 hours completed
Reading Days

Prior to and/or during the final examination period, two weekdays are set aside as Reading Days to be used by students for completing assignments and preparing for final examinations. In the fall semester, there will be one reading day on Monday of the first exam week and one reading day on Friday of the first exam week. In the spring semester, the two days prior to the beginning of the final exam period are set aside as reading days. These days are not to be used by faculty for scheduling examinations or other course activities that require the attendance of students. They can be used by faculty to schedule review sessions for which attendance is optional.

Readmission After Separation

See section on Academic Standing

Re-Enrollment After Voluntary Withdrawal

Students who have voluntarily withdrawn from the university and have not taken courses elsewhere following their withdrawal may re-enroll in any semester. Students who have taken courses elsewhere following withdrawal must provide official transcripts of their work with their request for re-enrollment. Upon re-enrollment following a voluntary withdrawal, students retain the hours earned and quality points for courses completed prior to withdrawal. In the first semester of re-enrollment, their academic status is the status in effect at the time of withdrawal, unless that status is changed by action of the Academic Standing Board.

Registration

For continuing students, registration for the fall semester begins in April, and registration for the spring semester begins in November. Complete registration instructions and regulations appear online on the web site of the University Registrar at www.cwru.edu/provost/registrar/registrar.html.

Student Access to Records

The academic records of all students are in the Office of Undergraduate Studies, 357 Sears Building. Students may review their files in that office by appointment. A student must sign a request and present his/her ID card at the time of the appointment.

Study at Other Colleges and Transfer Credit

Students may receive transfer credit for work completed at another accredited college, university, or technological institute in the United States or from institutions of higher education outside the United States.

At the time of admission to Case Western Reserve University and upon presentation of an official transcript from each institution previously attended, credit will be awarded for courses equivalent or comparable to those offered by the university and completed with a grade of C or better. Any such courses taken prior to the student’s graduation from high school must be listed in the college’s catalog among courses offered for degree credit to the college’s undergraduates, taken in the company of matriculated college students, and organized and taught by college faculty. In addition, to be considered for transfer credit, such courses must not have been used to fulfill high school graduation requirements. The awarding of transfer credit is determined by the Office of Undergraduate Studies in consultation with the appropriate department.

After matriculation at Case Western Reserve University, students are permitted to earn at other accredited colleges or universities no more than a total of 15 semester hours, including courses taken through the cross-registration program. However, students participating in approved study abroad programs may earn up to 36 credit hours for work completed during the program. Permission of a dean in the Office of Undergraduate Studies must be obtained in advance if the student wishes to enroll elsewhere. Further, if a student wishes to take elsewhere a course to satisfy a major or minor requirement, it must also be approved by the department chair or academic representative. Upon presentation of an official transcript from each institution previously attended, credit will be awarded for courses equivalent or comparable to those offered by the university and completed with a grade of C or better. Credit earned elsewhere after matriculation at Case Western Reserve University is not applied toward the residence requirement of a minimum of 60 hours, including at least 30 after achieving senior status, earned at Case Western Reserve. The Off-Campus Study Request Forms are available in the Office of Undergraduate Studies, 357 Sears Bldg.

Credit is not awarded for work done at an unaccredited institution in the United States except...
by proficiency examination in those departments of Case Western Reserve University offering that opportunity. The awarding of transfer credit for work done at institutions outside the United States is subject to departmental evaluation and to the recommendations of the National Council on the Evaluation of Foreign Credentials.

A student separated for poor scholarship may not earn transfer credit for courses taken in the first two sessions after that dismissal.

Grades for courses taken at other institutions will not be entered on the student's record nor will they be computed in the student's grade point average.

In addition to the regulations concerning transfer credit outlined above, the following special restrictions apply to credit for summer courses taken at other colleges, universities, or technical institutes:

1. Students ordinarily will not be permitted to take elsewhere in Cuyahoga County courses offered at Case Western Reserve University. Exceptions to this policy will be permitted only in the event of significant extenuating circumstances. Students who desire the opportunity to take elsewhere in Cuyahoga County a course being offered at Case Western Reserve must petition the Office of Undergraduate Studies in advance for permission to do so.

2. Students must be in good standing. If a student is placed on probation between receiving permission and the start of off-campus enrollment, the student is no longer eligible to enroll for and receive transfer credit for this work. Students on probation require special approval and should contact a dean in the Office of Undergraduate Studies.

3. Students may register for no more than 12 semester hours of credit. One quarter-hour equals two-thirds of one semester-hour.

4. Students may transfer credit only for courses in which a semester's work is completed in a minimum of four weeks.

**Good Academic Standing**

**Full-time First Year Students and Transfer Students in the First Semester**

In order to maintain good academic standing at the end of the first semester at Case Western Reserve University, a full-time (i.e., enrolled in at least 12 credit hours at the end of the drop/add period) first year student or new transfer student must:

1. earn a semester grade point average of 2.000 or higher AND
2. earn a minimum of 9 credit hours in that semester.

**Part-time Students**

Part-time students (i.e., those enrolled in fewer than 12 credit hours at the end of the drop/add period) will be in good standing if they earn a semester grade point average of 2.000 or higher.

NOTE: Any student with incomplete grades at the end of a semester may be placed on "probation (incomplete)" or made "ineligible to register," as described below.
Academic Probation

Students who, at the end of any semester, fail to maintain the standard of performance required for good standing as specified above will be automatically placed on probation. Students placed on probation are ineligible to represent the university in intercollegiate activities and may not hold an elective or appointed office or chair a committee in any campus organization. In addition, they may not earn degree credit for work completed at another college or university during the period of probation without special permission.

When placed on academic probation students will be expected to perform at a level that will return them to good standing at the end of the next semester. If they fail to return to good standing at the end of the following semester, they will ordinarily be separated from the university for a period of two academic sessions, including the summer session.

A full-time student placed on probation who subsequently enrolls as a part-time student will not be reviewed for further academic action until he or she has completed sufficient semesters to total at least 12 credit hours. At that time, the student will be reviewed on the basis of a composite of those semesters.

Similarly, a student who goes on probation as a part-time student will not be reviewed for further academic action until he or she has completed sufficient semesters to total at least the number of credit hours attempted in the semester for which the student was placed on probation. At that time, the student will be reviewed on the basis of a composite of those semesters and will be expected to have earned at least the number of credit-hours attempted in the semester for which he or she was placed on probation.

Probation (Incomplete):

A student will be placed on Probation (Incomplete) if he or she has incomplete grades which if converted to F’s would result in the student’s being placed on academic probation. Once the incompletes are converted to grades, the student shall be restored to good standing or placed on academic probation as determined by the semester grade point average and the number of credit hours earned.

Separation

Students on academic probation who fail to return to good standing at the end of the following semester will be considered for separation from the university for at least two academic sessions, including the summer session.

Also, full-time students at the end of their first semester at Case Western Reserve University will be considered for separation without a semester of probation if they:

1. earn a semester grade point average less than 1.000, AND
2. earn fewer than 9 credit hours in that semester.

After the first semester, full-time students will be considered for separation without a semester of probation if they:

1. earn a semester grade point average less than 1.000, OR
2. earn fewer than 9 credit hours in that semester.

Part-time students are not eligible for separation without already being on probation, but will be considered for separation if they fail to return to good standing after a period of probation.

Separation because of academic performance is not an automatic process. Students being considered for separation will be asked to prepare a statement explaining the difficulties that interfered with their ability to earn a satisfactory record. The Academic Standing Board will decide to separate the student or to place the student on academic probation or to continue the student on academic probation based on a review of the student’s statement and the academic record.

Students separated for reasons of academic performance may not earn transfer credit work completed elsewhere during two sessions of their separation.

Readmission from Separation

Students who have been separated because of poor academic performance may petition for readmission after two academic sessions, including the summer session, have elapsed. Students readmitted after being separated for reasons of academic performance will retain the credits they earned before separation only for those courses passed with a grade of C or better. Readmitted students do not retain quality points earned before separation, and the cumulative grade point average
will be restarted and include only those grades earned after readmission.

**Permanent Separation**

A second academic separation following review by the Academic Standing Board will ordinarily be permanent.

**Ineligible to Register**

Students will be declared “ineligible to register” when they have Incomplete grades which if converted to F’s would make them eligible for separation. Such students will be required to finish the incomplete courses with grades that justify their retention before they will be allowed to continue for the next academic session, unless they successfully petition the Academic Standing Board for permission to enroll.

**Summer Enrollment at Case Western Reserve University**

Students will not be reviewed for academic action at the end of the summer session except in the following two situations:

1. A student on academic probation as of the end of the spring semester will be returned to good standing at the end of the summer session if he or she has completed at least 6 credit hours at Case Western Reserve University with a summer grade point average of at least 2.000.

2. Nursing students who enroll for a full course load (at least 12 credit hours) that includes the capstone course during the summer session will be reviewed according to the standards of a regular fall or spring semester.

**Application for Graduation**

A student who has completed all graduation requirements in fewer than four years has the choice of graduating early or deferring graduation in order to graduate with his or her class. A student who completes all graduation requirements in four years or more must graduate at that time.

In addition, the student must file an on-line application for the degree through the Student Information System by October 1 for January graduation, by February 1 for May graduation, and by June 1 for August graduation; and the student must have discharged all financial obligations to Case Western Reserve University.

**Graduation Check**

Students must ensure that their Academic Requirement reports reflect accurately their progress toward their degrees. All requested corrections and exceptions must be submitted to the Office of Undergraduate Studies at least one semester prior to graduation. Academic Requirement reports are available on-line through the Student Information System.

**Participation in Commencement**

Students are eligible to participate in May commencement activities provided that they have completed all degree requirements during that spring semester or the immediately preceding fall or summer semester, or have an appropriate plan to complete their degree requirements in the upcoming summer or fall semester. A student may participate in Commencement only once as a bachelor’s degree candidate, though exceptions are sometimes made for students receiving a second bachelor’s degree at least one year after the first.
Undergraduate Collaborative Programs

Collaborative Programs with Other Colleges

Cross Registration in Northeast Ohio

If approved by the Office of Undergraduate Studies, full-time undergraduates in good academic standing may cross-register at Baldwin-Wallace College, Chancellor University, the Cleveland Institute of Art, the Cleveland Institute of Music, Cleveland State University, Cuyahoga Community College, Hiram College, John Carroll University, Lake Erie College, Lakeland Community College, Lorain County Community College, Notre Dame College of Ohio, and Ursuline College for one course per semester. Approval is normally limited to courses that are not offered at Case Western Reserve University.

To cross-register for studio courses at the Cleveland Institute of Art, a student must have permission from Case Western Reserve University’s director of art studios, Mr. Timothy Shuckerow, 2215 Adelbert Road, 368-2714, E-mail: txs10@case.edu.

Private music lessons can be arranged through the Department of Music in collaboration with the Cleveland Institute of Music. Students interested in pursuing this opportunity must obtain a permit at the Music Department in Haydn Hall to enroll for credit in Applied Music. Charges for private lessons will be covered by the full tuition rate for music and music education majors only. All other students will pay an additional fee.

Joint Program in Art Education

The joint program in art education of Case Western Reserve University and the Cleveland Institute of Art (CIA) enrolls students pursuing the BS in Art Education, combining studio art courses at the Cleveland Institute of Art with liberal arts and education courses at Case Western Reserve University. Admission to the program requires application to Case Western Reserve University and presentation of an art portfolio to the Cleveland Institute of Art; credentials must be acceptable to both institutions.

Joint Program in Music

All programs in music are conducted jointly by Case Western Reserve University and the Cleveland Institute of Music, and provide the intimacy and specialization of a professional conservatory, together with the resources of a comprehensive university. Students pursuing a major in music or music education take music theory and lessons at the Cleveland Institute of Music, and take music history and other liberal arts and music education courses at Case Western Reserve University. Students pursuing the BA with a major in music, or the BS in Music Education apply to and enroll in Case Western Reserve University, while students seeking the BM degree apply to and enroll in the Cleveland Institute of Music.

Joint Program in Teacher Licensure

Ohio teacher licensure may be attained by those undergraduate students who complete the approved curriculum of the Case Western Reserve University/John Carroll University Joint Program in Teacher Licensure (http://www.cwru.edu/artsci/teachlic/secondary.html?nw_view). Degrees in these programs are awarded by Case Western Reserve University and licensure is obtained through John Carroll University. Adolescence/Young Adult Teacher Licensure (grades 7-12) is available in Integrated Language Arts (English major), Integrated Social Studies (history major), Integrated Mathematics (mathematics major), Life Sciences (biology major), and Physical Sciences (chemistry or physics major). Multi-age licensure is available in French, Latin, and Spanish. The program requires 35 credit hours in professional education: 15 taken at Case Western Reserve University and 20 taken at John Carroll University.

The undergraduate/graduate programs in art education and music education meet the requirements for teacher licensure, grades pre-K-12. For further information, see departmental information in this bulletin.

Reserve Officer Training Corps (ROTC)

Reserve Officer Training Corps (ROTC) programs are available to Case Western Reserve University students through cooperative arrangements with Kent State University for Air Force ROTC and
with John Carroll University for Army ROTC. Each of these universities offers military studies, leadership and training courses. Participating students may seek transfer credit at Case Western Reserve for these courses, and may be exempted from the undergraduate physical education requirement. Students who are not recipients of ROTC scholarships may enroll in the first and second year ROTC courses without incurring any military obligation. University students enrolling in ROTC programs are eligible to compete for ROTC scholarships awarded by the Air Force or the Army.

**Air Force ROTC**

The Air Force Reserve Officer Training Corps (AFROTC) program provided by Kent State University prepares students for service as officers in the United States Air Force. Through courses in history, management, and leadership, and through practical training, students acquire leadership and management skills, and learn about Air Force career opportunities, the role of the military in American society, the history of air power, and national defense policy.

An agreement between Case Western Reserve University and Kent State University allows full-time Case Western Reserve students to complete aerospace studies courses. The courses are held at Kent State University, which is approximately 35 miles from Case Western Reserve, and are usually scheduled on one or two afternoons during the week. This arrangement allows Case Western Reserve students to participate in either the four- or two-year AFROTC program. Students wanting to enter the two-year program in the junior year must contact the professor of aerospace studies before March of the year before their planned entry.

Air Force ROTC scholarships are available on a competitive basis. Information about courses, registration, and scholarships may be obtained from the Department of Military Science (AFROTC), Kent State University, University Heights, OH 44118-4581; telephone: 216-397-4421. Case Western Reserve students planning to register for AFROTC courses at Kent State University should consult with the Office of Undergraduate Studies for information regarding registration procedures.

**Army ROTC**

The Army ROTC program is designed to prepare students for service as a commissioned Army officer in either the active duty U.S. Army or the reserve components of the Army Reserve or National Guard. Classes and practical training focus on military skills, officer professionalism, leadership training, and the development of military-related officer and management techniques and procedures.

Students may enroll in Army ROTC classes through cross-registration in the Department of Military Science at John Carroll University, which is approximately five miles from Case Western Reserve. Military science classes are taught at John Carroll University, with some activities also taking place at Cleveland State University or at Case Western Reserve.

Army ROTC scholarships are available on a competitive basis. Information about courses, registration, and scholarships may be obtained from the Department of Military Science (ARMY-ROTC), John Carroll University, University Heights, OH 44118-4581; telephone: 216-397-4421. Case Western Reserve students planning to register for Army ROTC courses at John Carroll University should consult with the Office of Undergraduate Studies for information regarding registration procedures.

**Fisk University Exchange Program**

An exchange program between Fisk University and Case Western Reserve University enables up to four Case Western Reserve students to spend a semester as visiting students at Fisk each year. Up to four Fisk students may spend a semester at Case Western Reserve each year. Fisk University was founded in 1866 as the first integrated, coeducational school in the United States, and, at its founding, focused on providing a quality liberal arts education to the children of former slaves. Fisk University has a distinguished history as a liberal arts institution. Fisk University was the first historically black college to have chapters of the Phi Beta Kappa and Mortar Board national honorary societies.

Case Western Reserve students who participate in the Case Western Reserve-Fisk Exchange pay tuition to Case Western Reserve University, pay the Fisk room and board fees, and maintain their student status during the period of the exchange. Information about the exchange program is available from the Fisk exchange advisor in the Office of Undergraduate Studies.

**The Dual Degree (3-2) Program in Engineering**

Students of superior scholarship who have attended one of a group of select liberal arts colleges with which Case Western Reserve University has a dual
degree agreement are eligible to participate in the Dual Degree (3-2) (http://engineering.case.edu/desp/) program at Case Western Reserve University. This program allows outstanding students to begin their studies at a liberal arts college for three years and pursue an engineering degree at Case Western Reserve University for two years. Once requirements at both institutions are completed, students will receive a degree from the liberal arts college and a degree from Case Western Reserve University in a designated engineering discipline. For additional information, contact Debbie Fatica, 304 Nord Hall, 368-4449, E-mail: dxf3@case.edu.
Undergraduate Criteria for Scholarship Retention

Students who are awarded scholarships based on academic achievement or potential by Case Western Reserve University are expected to perform at an appropriate academic level and maintain good conduct in the community. These scholarships will be automatically renewed each semester, provided that the student meets the retention criteria established for his or her scholarship at the time of the initial award. These retention criteria, as defined for students who matriculated at Case Western Reserve University prior to August 2011 and for students who matriculate at the university in August 2011 or later, are outlined on the following pages, along with information about the duration of these scholarships and the appeal process for students who fail to meet the established retention criteria.

Criteria for Scholarship Retention for Students Matriculating in August 2011 or Later

Full-Tuition (Andrew Squire, Albert W. Smith, Adelbert Alumni, Alexander Treuhaft, and Warren E. Ruppi), University, Michelson-Morley STEM, and Bolton Scholarships

The academic records of scholarship recipients are ordinarily reviewed at the end of each semester. To have a scholarship renewed for the following semester, the student must be in good academic and disciplinary standing.

In exceptional cases, Academic Standing Board will continue a scholarship for a student whose achievement or whose attendance does not meet the standards outlined above. It is the student’s responsibility to write to the Academic Standing Board, c/o the Office of Undergraduate Studies, within 7 business days of the end of the exam period each semester to request special consideration for continuation of a scholarship. This appeal should inform the committee of any special circumstances which may have affected performance and/or attendance during the preceding academic semester, provide any relevant documentation, and describe a plan for how academic performance will be improved in the future.

Students who lose their scholarships because of unsatisfactory academic or disciplinary standing will have their scholarships automatically reinstated at the start of the next semester if they return to good standing. However, students lose a semester of scholarship eligibility for each semester that they fail to achieve good standing; that is, students will not receive these scholarships while on probation or during their first semester back from an academic separation, and the maximum number of semesters for which they can receive their scholarships will be reduced.

Other Scholarships Awarded by Case Western Reserve University

Recipients of scholarships other than the ones listed above should refer to their scholarship award letter for specific scholarship retention criteria.

Duration

A student who meets the standards for scholarship retention may receive scholarship assistance for no more than eight semesters of full-time undergraduate study (less any semesters lost due to falling out of good academic or disciplinary standing, as described above). The scholarship is awarded for full-time enrollment in regular (fall and spring) semesters.

A scholarship recipient who does a complete withdrawal during a semester will have used up a semester of scholarship eligibility, but will be eligible to receive the scholarship again when he or she next enrolls, provided that his or her leave of absence does not last more than one semester (as described below). If a scholarship recipient completes a bachelor’s degree in fewer than eight semesters of full-time study at Case Western Reserve University, the scholarship will be terminated upon completion of the degree.

In the eighth semester (or in the final semester for a student completing the bachelor’s degree in fewer than eight semesters), a recipient may request permission for part-time enrollment with pro-rated scholarship support if completion of the degree does not require full-time enrollment in that final semester.
Semesters spent participating in the Cooperative Education Program or on a leave of absence are not counted against a student’s eight full-time semesters of scholarship eligibility.

Leave of Absence Policy

A scholarship recipient may take a one-semester leave of absence during the student’s undergraduate career and put his/her scholarship “on hold” for reactivation upon the student’s return to Case Western Reserve University. Requests for a one semester leave of absence must be submitted in advance to the Office of Undergraduate Studies. Requests for leaves of absence longer than one semester must be submitted to the Academic Standing Board and will be reviewed on an individual basis.

A scholarship is automatically terminated upon a student’s transfer to another institution or upon permanent separation from the university.

Criteria for Scholarship Retention for Students Who Matriculated Prior to August 2011

Full-Tuition (Andrew Squire, Albert W. Smith, Adelbert Alumni, Alexander Treuhaft, and Warren E. Rupp), Trustees’, President’s, Provost’s, Dean’s, Faculty Honors, and Faculty Scholarships

The academic records of scholarship recipients are ordinarily reviewed at the end of each spring semester. To have a scholarship renewed for the following academic year, a recipient is expected to satisfy two requirements: a minimum number of hours earned after enrolling at Case Western Reserve University and a minimum cumulative scholarship grade point average**. The cumulative scholarship GPA requirement is 2.500 at the end of the first year and 3.000 at the end of each succeeding year. Scholarship recipients will be required to have earned at Case Western Reserve University at least 24 semester hours in the first year, 54 semester hours by the end of the second year, and 84 semester hours by the end of the third year.

Students participating in the Cooperative Education Program or taking a leave of absence or who completely withdraw from a semester will have their scholarship reviewed based on an adjusted credit hour standard: first-year students will be expected to earn at least 12 semester hours and a 2.500 cumulative scholarship GPA while upper class students will be expected to earn 15 semester hours fewer than the expected credit hour criterion and a 3.000 cumulative scholarship GPA (e.g. a second year student will be expected to earn 39 hours as opposed to 54 hours).

Students who study abroad and for whom official overseas transcripts have not been received at the time of scholarship review will retain their scholarships provided that they meet the overall semester hours required when their records are complete or that they successfully complete a full course load during study abroad as defined by the host institution.

**Scholarship Grade Point Average: All courses completed for an evaluative grade at Case Western Reserve University are included in the computation of the scholarship GPA. The scholarship GPA matches the student’s cumulative GPA unless the student has repeated a course. If a scholarship recipient has used the Course Repeat Option, both the original grade and the subsequent grade will be included in the computation of the cumulative average for the purpose of determining eligibility for scholarship continuation.

Provost’s Special Scholarships

Recipients of Provost’s Special Scholarships must maintain academic good standing to be eligible for continuation of their scholarships. Students who do a complete withdrawal for a semester will still have their scholarship reviewed on the basis of good academic standing.

Other Scholarships Awarded by Case Western Reserve University

Recipients of scholarships other than the ones listed above should refer to their scholarship award letter for specific scholarship retention criteria.

Duration

A student who meets the standards for scholarship retention may receive scholarship assistance for no more than eight semesters of full-time undergraduate study. The scholarship is awarded for full-time enrollment in regular (fall and spring) semesters. A scholarship recipient who does a complete withdrawal for a semester will lose that semester of scholarship eligibility. If a scholarship
recipient completes a bachelor's degree in fewer than eight semesters of full-time study at Case Western Reserve University, the scholarship will be terminated upon completion of the degree. In the eighth semester (or in the final semester for a student completing the bachelor’s degree in fewer than eight semesters), a recipient may request permission for part-time enrollment with pro-rated scholarship support if completion of the degree does not require full-time enrollment in that final semester.

Leave of Absence Policy

A scholarship recipient may take a one-semester leave of absence during the student’s undergraduate career and put his/her scholarship “on hold” for reactivation upon the student’s return to Case Western Reserve University. Requests for a one semester leave of absence must be submitted in advance to the Office of Undergraduate Studies. Requests for leaves of absence longer than one semester must be submitted to the Academic Standing Board, c/o the Office of Undergraduate Studies, and will be reviewed on an individual basis. The leave of absence policy does not apply to a student who transfers to another institution and subsequently returns to Case Western Reserve University.

Scholarship Termination

Once a scholarship has been terminated for failure to meet the retention standard, it cannot be reinstated unless reinstatement has been granted by the Academic Standing Board after review of an appeal. A scholarship is automatically terminated upon a student’s transfer to another institution.

Appeal Process

Evaluation of student records for scholarship renewal will take place at the end of each academic year, in June. In exceptional circumstances, the Academic Standing Board will continue a scholarship for a student whose achievement or whose attendance does not meet the standards outlined above. It is the student’s responsibility to write to the Academic Standing Board, c/o the Office of Undergraduate Studies, before June 1, to request special consideration for continuation of a scholarship. This appeal should inform the committee of any special circumstances which may have affected performance and/or attendance during the preceding academic year, provide any relevant documentation, and describe a plan for how academic performance will be improved in the future.
Undergraduate Experiential Learning

Experiential Learning

Inside and outside the classroom, Case Western Reserve University offers undergraduates a variety of experiences that are built on a process of guided inquiry, preparation, action and reflection. Many research, internship, and employment opportunities are aligned with academic programs. Linguistic and cultural immersion characterize the study abroad experience. Courses that incorporate community service or internships into the curriculum forge links between Case Western Reserve undergraduates and schools, neighborhoods, businesses, and governmental and health care institutions in Cleveland and elsewhere.

Course-Based Experiential Learning

In disciplines as diverse as psychology, journalism, engineering, Spanish, Russian, nursing, anthropology, history, and biology, Case Western Reserve students engage in experiential learning beyond the on-campus classrooms and laboratories. Experiences that form the basis for reflection and synthesis under the guidance of faculty include working with hospitalized children, designing engineering solutions for a problem presented by a municipality, interning at a local media outlet, tutoring in Cleveland’s Hispanic community, gaining experience in public health clinics, studying history with “the city as classroom,” or collecting aquatic specimens from the ponds at the university’s 389-acre farm.

International Experience

Undergraduate students who have completed at least 24 semester hours of coursework at Case Western Reserve University, have declared a major, and are in good academic and disciplinary standing, with no pending judicial actions, and are otherwise eligible to register on campus at Case Western Reserve University for the proposed semester(s) (no financial holds, e.g.) are eligible to participate in programs of study or practical experience that immerse them in the culture and language of another country. Up to 36 semester hours of credit may be granted for an approved program of study at a foreign university by enrollment as an exchange student at a university with which Case Western Reserve University has an agreement, by direct enrollment at a foreign university, or by enrollment in a foreign study program offered through an accredited American university or program provider. Specific study abroad programs may have their own admissions guidelines that exceed these standards; students need to be accepted by those programs. Students participating in study abroad pay tuition to Case Western Reserve University and maintain their student status during the period of study abroad. Case Western Reserve University will, in turn, pay the tuition costs for the student’s program, but the student will be responsible for all non-tuition costs associated with study abroad. Students eligible for financial aid continue their eligibility during study abroad.

In addition, some Case Western Reserve courses for undergraduates incorporate short-term overseas experience into the curriculum. Students are encouraged to seek such opportunities by contacting academic departments of interest.

Bilateral Exchange Programs

Case Western Reserve University has bilateral exchange agreements enabling students from overseas institutions to attend the University as visiting students and permitting Case Western Reserve undergraduates to receive academic credit for study at the following institutions:

- University of Lancaster, UK (all majors)
- University of Manchester, UK (humanities, social sciences)
- University of Sheffield, UK (all majors)
- University of Sydney, Australia (management, accounting, economics, sociology, political science)
- ESC de Montpellier, France (management, accounting)
- University of Frankfurt, Germany (management, accounting)
- Universidad Carlos III, Spain (management, economics)
- Bilkent University, Turkey (all majors)
- National University of Singapore (all majors)
- Chulalongkorn University, Thailand (engineering)
• Wuhan University, China (nursing)
• University of the Virgin Islands (nursing)

Information about bilateral exchange programs with other overseas universities is available from the study abroad advisor in the Office of International Affairs, Tomlinson Hall.

Global Engineering Exchange Program (GE3)

The Global Engineering Education Exchange (http://www.iie.org/programs/globale3) (GE3) program enables qualified engineering and computer science students to receive academic credit for courses taken at selected engineering institutions and universities in Europe, Asia, Mexico, and Australia, and to have an internship experience in a foreign setting. The program is administered by the Institute for International Education in collaboration with an international consortium of universities offering engineering programs that includes Case Western Reserve. Information about the GE3 program is available from the study abroad advisor in the Office of International Affairs, Tomlinson Hall.

Other Approved Study Abroad Programs

Opportunities exist for students to study abroad in almost all parts of the world through direct enrollment at leading foreign universities or by enrolling in a foreign study program offered through an accredited American university or program provider. In recent years, Case Western Reserve University undergraduates have studied in Argentina, Australia, Austria, Chile, Denmark, England, Finland, France, Germany, Ghana, India, Ireland, Israel, Italy, Japan, Kenya, Nepal, the Netherlands, New Zealand, Russia, Scotland, Senegal, South Africa, Spain and Sweden. The selection of location and institution for study abroad is made in consultation with the study abroad advisor in the Office of International Affairs, Tomlinson Hall.

Research Experience

Undergraduate Research

Case Western Reserve University is a research-intensive community with a historic tradition of involving undergraduates in research and creative endeavors. Regardless of a student’s major or academic interests, there are numerous opportunities to engage in research either on campus with Case Western Reserve faculty or elsewhere during both the academic year and the summer. The SOURCE (http://www.case.edu/provost/source/) (Support of Undergraduate Research and Creative Endeavors) Office provides assistance to students in identifying research and creative project opportunities, provides funding for on-campus summer research and travel for students presenting their work at national conferences, and sponsors “Intersections: SOURCE Symposium and Poster Session” and Discussions, the University’s peer-reviewed undergraduate research journal. For more information, contact the SOURCE Director, Sheila Pedigo, Sears 451, 216-368-8508, e-mail: sheila.pedigo@case.edu.

In many cases, students pursuing research under the guidance of a faculty member may earn degree credit by registering for “Undergraduate Research” or “Independent Study” in the appropriate department. These are advanced level courses and require departmental approval. However, students may not earn both degree credit and pay for the same work.

Work Experience

The Center for Civic Engagement and Learning

The Center for Civic Engagement and Learning connects students and the community through service. The center coordinates both curricular and co-curricular activities that promote learning through service to communities locally, nationally, and internationally. Service learning venues include academic course work, work-study positions, residence hall and Greek Life programs, the University Circle Literacy Corps, and weekly service opportunities.

The Center for Civic Engagement also offers regular, weekly and bi-monthly opportunities for community service through the Case SERVES projects; assists faculty and students in designing and implementing community-based courses and SAGES capstone projects; coordinates on-going volunteer and work-study tutoring; and schedules Days of Service for one-time community service projects.

Cooperative Education

Cooperative Education (Co-op) (http://engineering.case.edu/coop/) is an academic program that enables students to alternate
classroom studies with career based experiences in industry. It is a learning experience designed to integrate classroom theory with practical experience and professional develop. Co-op is a paid full time work experience designed to enhance the student’s education. Case co-op assignments are typically for two seven-month periods, each period consisting of a summer and a contiguous spring or fall semester. While participating in co-op, students maintain their full-time student status. This program is available to students pursuing degrees in engineering, accounting, management and all science majors except astronomy. For additional information, contact Ms. Mary Rose Tichar, 304B Nord Hall, 368-4447, E-mail: mrt2@case.edu.

Professional Practicum

Practicum (http://studentaffairs.case.edu/careers/jobs/practicums/) is an experiential learning collaboration between a student, an employer, and the student’s practicum advisor (a faculty member), that is coordinated by the Career Center’s Experiential Learning Specialist. The program is open to undergraduate students enrolled in the College of Arts and Sciences and/or the Weatherhead School of Management. The primary goal of a practicum is the intellectual, personal and professional growth of the student. In order to ensure that this goal is achieved, the involved collaborators establish and agree upon learning objectives prior to the start of the practicum. These objectives are reviewed throughout the semester, and the student’s progress is evaluated at both the mid-point and end of the practicum.

While completing a practicum assignment, a student works full-time for a minimum of 14 weeks in a professional setting and does not take classes. The student will maintain full-time student status during the practicum period. Though credit is not awarded, students who successfully complete the practicum assignment will receive transcript notation. A student may participate in up to two practica, but it is recommended that at least one intervening semester be spent on campus. Students interested in participating in a practicum should contact the Career Center a semester prior to the intended practicum assignment.

Washington Study Program

The Washington Study Program (http://politicalscience.case.edu/undergradwashstud.htm) provides students with the opportunity to complete a full-time, research-intensive internship in Washington, D.C. By participating in a semester-length program during the fall or spring (WASH 2A Washington Center Internship), students earn 9 credit hours; for a summer internship (WASH 2D Washington Center Summer Internship), they earn 3 credit hours. In addition, students earn 3 credit hours by developing a portfolio based on their internship experiences (WASH 2C Washington Center - Portfolio). The credits earned can be counted as general electives or applied to a student’s major or minor, with the prior consent of the individual department(s). Finally, as part of the Washington Study Program, students participate in a seminar and attend a weekly lecture/discussion group (WASH 2B Washington Center - Politics and Public Policy Course).

To be eligible for the program, a student is expected to be a junior or senior and have at least a 3.000 GPA. The program director (Professor Alexander Lamis, 111 Mather House, 368-2696, E-mail: alp2@case.edu), the student’s major advisor, and the appropriate dean must approve each application. Students must ensure that their participation will not prevent them from meeting on-campus residency or other university requirements.
Undergraduate General Degree Requirements

Case Western Reserve University offers a broad range of programs in the liberal arts and sciences, engineering, management, accountancy, and nursing leading to the Bachelor of Arts (BA) and the Bachelor of Science (BS) degrees. These programs provide depth through concentrated study in a major field, breadth through the fulfillment of general education or core curriculum requirements, and open electives.

The BA is available in more than forty fields in the humanities and arts, the social and behavioral sciences, and the natural sciences and mathematics. In addition, BS programs are offered in accounting, management, the natural sciences, mathematics, computer science, statistics, nutrition, art education, music education, and nursing. The BS in Engineering is available in twelve major fields.

The Bachelor of Music (BM) degree is offered through the Joint Program in Music of Case Western Reserve University and the Cleveland Institute of Music. Students who are candidates for the BM enroll in the Cleveland Institute of Music.

General Requirements for all Bachelor’s Degrees

The bachelor’s degree programs require students to study one field in depth (the major) and to complete general education requirements or a core curriculum as appropriate to the major field and degree program selected. There is overlap among core curricula and general education requirements, which allows students flexibility in the choice of majors and degree programs.

Every candidate for a baccalaureate degree from the university must:

1. complete a foundation curriculum (core curriculum or general education requirements), as specified for the degree sought, that incorporates the requirements of the Seminar Approach to General Education and Scholarship (SAGES);
2. complete two semesters of physical education. This is completed through a combination of half and/or full semesters in Physical Education activity courses;
3. complete a course of studies with a cumulative grade point average of no less than 2.000 for work taken at Case Western Reserve University; and
4. earn in residence at Case Western Reserve University a minimum of 60 semester hours, of which at least 30 must be earned after the student achieves senior status.

There are four foundation curricula that incorporate the SAGES requirements:

1. Arts and Sciences General Education Requirements, required for the Bachelor of Arts (BA) and the following Bachelor of Science (BS) degrees: applied mathematics, art education, astronomy, biochemistry, biology, chemistry, geological sciences, mathematics, music education, nutrition, nutritional biochemistry and metabolism, physics, statistics, and systems biology.
2. Engineering Core Curriculum, required for the Bachelor of Science in Engineering (BSE) degree and, with specific course exceptions, for the Bachelor of Science (BS) degree in computer science.
3. School of Nursing General Education Requirements, required for the Bachelor of Science in Nursing (BSN) degree.
4. Weatherhead School of Management General Education Requirements, required for the Bachelor of Science (BS) degree in accounting, and in management.

SAGES

The Seminar Approach to General Education and Scholarship (SAGES) provides a foundation in critical thinking, written and oral communication, the use of information, quantitative reasoning, engagement with ethical issues and diversity, and exposure to experimental and theoretical approaches to understanding human culture and behavior, scientific knowledge, and methods of research through the following:

1. First Seminar, taken in the first semester, introduces students to the seminar format through reading, discussion, and intensive writing, and incorporates activities with University Circle institutions. First Seminar will
be selected from offerings in the Life of the Mind, the Natural World, the Social World, or the Symbolic World.

*Transfer Students only: Transfer students who have completed the English composition/expository writing requirement with a grade of C or higher at the college/university at which they previously matriculated will receive transfer credit for FSCC T100 (3 – 6 semester hours) and will be required to complete a supplemental 1-semester-hour SAGES introductory seminar – FSTS 100 SAGES Transfer Supplement.

2. **Two University Seminars**, taken after the First Seminar and before the end of the student’s second year, and selected from seminars that address specific topics that fall under broad themes: Thinking About the Social World, Thinking About the Symbolic World, Thinking About the Natural World.

3. **Writing Portfolio**, comprising writing assignments selected from the First Seminar and University Seminars. The Writing Portfolio is submitted for evaluation after completing the final University Seminar.

4. **Department Seminar**, generally taken in the junior year in the student’s major field, that focuses on discipline-specific methods and modes of inquiry and communication.

5. **Senior Capstone**, a one- or two-semester capstone project integrating the knowledge, initiative, problem-solving skills, and powers of communication developed by the student. Substantial writing and a final public presentation are required.

Information about specific department seminars and capstones is available from department academic representatives and on the searchable schedule of classes on the University Registrar’s website (http://www.case.edu/provost/registrar/soc.html/).

If a student extends study towards a bachelor’s degree beyond 10 years after first matriculation as an undergraduate student, the major-field department(s) will review the student’s academic record and may update major field requirements. Also, if the student has not already completed the applicable general education requirements in place at the time of matriculation, the appropriate dean in the school offering the major will also review the student’s academic record and may update general education requirements.

**Dual Undergraduate Degree Programs**

To qualify for two undergraduate degrees, i.e., a BA and a BS degree, or two BS degrees, a student must satisfy all requirements for each degree, and complete for the second degree thirty semester hours of study beyond the hours required for the first degree. A student may, however, complete two or more Arts and Sciences majors within the 120 hour minimum requirement for the BA degree or two or more Engineering majors within the 128-133 hour minimum requirement for the BS in Engineering degree. Students who seek a dual-degree program that involves the BM must meet Cleveland Institute of Music and Case Western Reserve admission requirements, and seek approval of both the Cleveland Institute of Music and Case Western Reserve University.

Students completing both a BA and a BS degree are exempted from six hours of the 90 hour arts and sciences requirement for the BA.

A student pursuing two degrees is encouraged to meet with a dean in the Office of Undergraduate Studies, 357 Sears Bldg., to discuss requirements.

**Requirements for Specific Degrees**

Students are expected to complete a bachelor’s degree in a timely fashion and will ordinarily be subject to the degree requirements in place at the time of matriculation at Case Western Reserve University, although they may chose to update their requirements to those included in a later General Bulletin.
Undergraduate Grades

Grades

Grades at Case Western Reserve University are issued on the following scale with good standing based on the requirement of a 2.000 average for graduation. Academic averages are computed by dividing the number of quality points earned by the number of hours completed, excluding transfer credit and courses graded P.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Meaning</th>
<th>Quality Points</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Fair</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Passing</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0</td>
<td>This grade will be given for academic failure as well as failure to attend class without formally withdrawing</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal for a class</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WD</td>
<td>Withdrawal from all classes during a given semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>Passing in a Pass/No Pass Course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NP</td>
<td>Not Passing in a Pass/No Pass Course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>For courses which extend over more than one semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AD</td>
<td>Audit</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Grade of Incomplete

Assignment of the Incomplete Grade:
The Incomplete grade (I) is assigned by and at the discretion of the instructor when a) there are extenuating circumstances, explained to the instructor before the assignment of the grade, which clearly justify an extension of time beyond the requirements established for and met by other students in the class, and b) the student has been passing the course and only a small segment of the course, such as a term paper, remains to be completed. It is the student’s responsibility to notify the instructor of the circumstances preventing completion of all assigned work. In the absence of notification or adequate justification, the instructor has the authority to assign the student a final grade that assumes a failing grade for the missing work. An Incomplete grade should not be assigned a) when a student has been absent for much of the semester and/or has done little of the work required for a course, or b) because a student is absent from a final examination, unless the dean of undergraduate studies has authorized the grade.

The amount of additional time allowed the student to make up incomplete work should serve to accommodate the student while being fair to other students in the course. It should be proportional to the duration of a student’s illness or absence and might be no more than a few days or weeks. At the extreme, it should not extend past the eleventh week of the session following the one in which the Incomplete grade was received. In certain cases (such as students on probation) the dean of undergraduate studies may establish an earlier date for completion of courses with Incomplete grades.

Changing the Incomplete Grade:
When the student has completed the required work, the instructor shall enter in the Student Information System a final evaluative grade to replace the Incomplete. When a student fails to submit the work required for removing the Incomplete by the date established, the instructor shall enter a final grade that assumes a failing performance for the missing work. In the absence of the assignment of a grade by the instructor, the Registrar will convert the I to F when the deadline for making up Incomplete grades from a previous semester has passed.

Audit
A student may audit a course with the dean’s or advisor’s approval and the consent of the instructor of the course. An auditor receives no credit for the course. Registration in a course cannot be changed from audit to credit or the reverse after the end of the drop/add period. However, a student
may take for credit a course he or she audited in an earlier semester. At the beginning of the course, the student and instructor should reach agreement regarding the requirements to be met for a grade of AD. The grade of AD is entered on the student’s transcript if approved by the instructor of the course. If the instructor does not approve the grade AD, the enrollment is not posted on the transcript.

**Pass/No Pass**

Undergraduate students (degree candidates and non-degree students enrolled at the undergraduate level), other than students participating in the Pre-College Scholars program, may elect to take one course each fall and spring semester on a Pass/No Pass grading basis, provided they remain enrolled in at least 3 semester hours of courses for regular evaluative grades. Enrollment in courses that are graded on a Pass/No Pass basis (e.g., PHED 55A) does not preclude a student’s use of the Pass/No Pass option in another courses taken that same term. The Pass/No Pass option is not available during the summer session or to undergraduate degree candidates enrolled at the graduate or professional levels through the IGS program or Senior Year in Professional Studies.

Instructors are not notified of a student’s use of this option. They submit evaluative grades for all students and these are converted to Pass/No Pass in the Registrar’s Office. Courses elected on a Pass/No Pass basis and completed with a grade of D or higher will be entered with the grade P on the student’s transcript. Courses taken Pass/No Pass for which a grade of F is earned will have NP entered on the transcript. Students who earn a P grade will earn credit for the course, while those who earn NP will not. Grades of P and NP are not included in computing the grade point average.

Students may submit an on-line Pass/No Pass Option form at any time in the fall or spring semester after the end of the drop/add period and before 5:00 p.m. on the day of the course withdrawal deadline for that semester (currently the 11th Friday of the semester for upperclass students, including new transfer students; and the last day of classes for first year students).

Use of the Pass/No Pass option is subject to the following restrictions:

1. All courses to be counted toward major, minor, or SAGES/general education/core requirements must be taken for regular evaluative grades. If a student opts for the Pass/No Pass option in a course, that course will not be counted toward any of these requirements.

2. Students majoring in any Weatherhead School of Management major (accounting or management) may not use the Pass/No Pass option for any Weatherhead School of Management courses (ACCT, BAFI, BLAW, ENTP, LHRP, MGMT, MIDS, MKMR, OPMT, ORBH, OPRE, PLCY), either required or elective.

3. The Pass/No Pass Option cannot be used for courses that are being repeated.

4. A decision to use the Pass/No Pass option is irrevocable unless the student needs that course to complete requirements for a major or minor declared in a subsequent semester. In that event, the student may request that the Office of Undergraduate Studies reveal the grade on the transcript at the start of the student’s final term at Case Western Reserve University.

**Course Repetition**

Students have the opportunity to retake a course in which they have received an evaluative grade (A, B, C, D, or F) in order to improve their performance. When a course is repeated the first grade will remain visible on the transcript, but will be removed from the calculation of the cumulative grade point average and the grade point average for the semester in which the course was first taken. The new grade will then be used for calculation of the cumulative grade point average and the grade point average for the semester in which it was earned, regardless of whether the new grade is higher or lower than the first grade. The student’s transcript will show the comment “Repeated: No credit awarded” directly below the original grade. However, if the first attempt of the course resulted in a passing grade, but the second attempt results in a failing grade, then the original grade will remain. Similarly, if a student withdraws from a course that is being repeated, the Course Repeat Option will not be applied and the original grade will stand. Course repetition may be exercised according to the following conditions:

1. A student may not use the Pass/No Pass Option on a course that is being repeated.

2. An academic action that occurred under the earlier grade is neither reversed nor removed from the record as a result of a change in the semester or cumulative averages that results from the repetition of one or more courses.

3. All grades earned at Case Western Reserve University, including those grades removed as a result of the application of the Course Repeat Option Policy, will be applied to the Scholarship GPA that is reviewed in order to determine
Case Western Reserve University merit-based scholarship retention.

4. The course repeat option may not be exercised after a degree has been awarded. Similarly, if a student repeats a course for which he or she has already received either test (AP, IB, etc.) or transfer credit, the original credit will be removed and the transcript will show the comment “Repeated: No credit awarded.” Credit will instead be awarded for the course taken at Case Western Reserve University and the grade will be included in GPA calculations.

CAUTION: Students who are the recipients of any form of federal financial aid (grants, loans, work study, etc.) and repeat a course that previously earned a passing grade must enroll for a minimum of 12 credits for which credit had not been earned previously.

Grade Reports and Transcripts

Students may view their grades on the Student Information System. Students can request official copies of their transcripts from the Registrar’s Office. The University considers the grades earned by a student and other information about the student’s performance at the University confidential and will release such information only upon written request by the student. Transcripts will not be issued to or on behalf of students who have not discharged all obligations to the University.

Midterm Grades

Midterm grades are assigned in undergraduate courses at the end of the eighth week of each semester. The purpose of midterm grades is advisory; the grades are not part of a student’s official academic record or transcript. At midterm, an instructor may assign to undergraduates evaluative letter grades (A, B, C, D, or F) or grades to indicate satisfactory (S) or unsatisfactory (U). (S and U may not be assigned as final course grades in undergraduate courses). Students may view their midterm grades on the Student Information System. Students who have any low or unreported midterm grades should discuss their progress with their instructors and with their advisors.
Undergraduate Honors and Awards

Dean’s Honor Lists

The Dean’s Honor Lists consist of the names of those undergraduate students who have distinguished themselves by achieving during the previous semester the grade point averages required with a minimum of 12 hours earned and who have no Fs or NPs, during the same period. Students with a grade point average of 3.750 or higher will be placed on the Dean’s High Honors List. Students with a grade point average of at least 3.500 but less than 3.750 will be placed on the Dean’s Honors List. Students whose records include Incompletes become eligible for the Dean’s Honor Lists once all Incompletes have been converted to final grades. Having earned a place on the Dean’s Honors List or Dean’s High Honors List is noted on the transcript.

Commencement Honors

Commencement Honors are awarded to the top 35 per cent of the graduating class.

- Top 10 per cent: summa cum laude
- Next 10 per cent: magna cum laude
- Next 15 per cent: cum laude

The specific GPA cutoffs are determined each year after the awarding of August degrees on the basis of the GPAs of students who graduated over the past five years. These cutoffs are then applied to degrees awarded in the following January, May, and August.

To be eligible for commencement honors, candidates must have:

1. Earned a minimum of 54 hours for evaluative grades (A, B, C, D) in residence at the university.
2. Attained the required percentile ranking on the basis of all work for which grades are averaged at the university, including any grades earned before an academic separation.

Honors in the Major

Some majors offer outstanding students the opportunity to complete an honors program. Students who participate in an honors programs in the major and satisfy the requirements for such a distinction, as specified by the major, may qualify to receive the degree "with honors in the major." The academic representative for the major can provide information regarding requirements for graduation with honors in the major.

Phi Beta Kappa

Phi Beta Kappa, a national honor society, recognizes outstanding scholarship in the arts and sciences. The Alpha Chapter of Ohio, established in Western Reserve College in 1847, was one of the first ten established nationally. Students may qualify for election to membership in the second semester of the senior year. A few outstanding students may be elected to membership as juniors.

Tau Beta Pi

Tau Beta Pi is a national honor society that recognizes full-time engineering students for outstanding scholarship, leadership, and service.

Mortar Board

Mortar Board is a national honor society that recognizes full-time senior students for outstanding scholarship, leadership, and service.

Fellowships and Scholarships

Outstanding students may obtain information about national competitive scholarships (Goldwater, Truman, Rhodes, etc.) in the Office of Undergraduate Studies, 357 Sear Building.

Departmental and Collegiate Awards

At honors assemblies at the end of each spring semester, the university presents awards recognizing the outstanding achievement of individual students. The departmental awards are based on achievement in specific academic disciplines. Some of the departmental and collegiate awards are based on a combination of leadership, scholarship, and service. The collegiate awards for students with the best academic records take into account credit load, grades, and the proportion of courses taken for evaluative grades (i.e., not taken Pass/No Pass).
Accountancy

- The Apple Growth Partners Scholarship Award
- The Beta Alpha Psi Award for excellence in accounting
- The Beta Alpha Psi Scholars Recognition Award for outstanding scholarship among members of the Pi Chapter
- The Andrew D. Braden Award for Excellence in Auditing and Financial Reporting Studies
- The Cashy Family Scholarship Award
- The Cohen & Co./Beta Alpha Psi Leadership Award
- The Dean’s Award in Accounting
- The Dean’s Award for excellence and leadership in accountancy
- The Dean’s Award in Accounting/The Deloitte Award to an outstanding junior majoring in Accounting
- The Thomas Dickerson Award for Excellence in Professional Accountancy Studies
- The Accounting Achievement Award/Ernst and Young Award
- The Louis E. Levy Scholars in Accountancy
- The Ohio Society of Certified Public Accountants Cleveland Endowment Scholarship
- Saltz, Shamis & Goldfarb/SS&G Scholarship Award
- The Dean’s Award in Accounting/Skoda, Minotti & Company Award for an outstanding underclassman
- The Wallach-Lee Families Scholarship Award

Anthropology

- The Callender Memorial Award for outstanding achievement in anthropology
- The James Dysart Magee Award for the senior year to an outstanding student in social and behavioral sciences
- The Jonathan F. Plimpton Award to a graduating senior for outstanding achievement in anthropology
- The Ruth and Newbell Niles Puckett Award to a graduating senior for outstanding achievement in anthropology

Art History

- The Muriel S. Butkin Art History Prize for overall best performance and highest grade point average by an undergraduate art history major
- The Noah L. Butkin Award for the best term paper on an art history topic written by an undergraduate
- Friends of Art Prize awarded to an undergraduate senior art history major for distinction in the field of art history

Art Studio

- The Charles E. Clemens Prize for outstanding talent and accomplishment in art
- The William Grauer Award for excellence in art studio courses
- The Doris Young Hartsock Prize for excellence in art education
- The Hazel Gibbs Herbruck Prize for excellence in art education
- The Kennedy Prize for creative work in art
- The Arnold Philip Award for excellence in art

Astronomy

- The Jason J. Nassau Prize to an outstanding senior student in astronomy

Biochemistry

- The Merton F. Utter Prize to a candidate for the BA majoring in biochemistry for outstanding achievement
- The Harland G. Wood Prize for outstanding performance by a graduating senior majoring in biochemistry who is a candidate for the BS in Biochemistry
Biology

• The Daniel Burke Prize for excellence in both biology and chemistry

• The Francis Hobart Herrick Prize for outstanding biological research and academic excellence in biology

• The Russell M. Lawall Prize in Biological Sciences for excellence in biology

• The Flora Stone Mather Alumnae Award in Biology for outstanding academic performance in biology

• The Michelson-Morley Undergraduate Research Prize in the Biological Sciences for outstanding research presentation, funded by the Howard Hughes Medical Institute

• The Ralph A. Spengler, Jr. Award for excellence in plant science

• The J. Paul Visscher Memorial Award of the Cleveland Audubon Society to the senior or graduate student who demonstrates outstanding ability and promise in the field of ecology or environmental science

Biomedical Engineering

• The Jose Ricardo Alcala Memorial Award for biomedical engineering research

• The Mark Bernstein Memorial Award to a senior biomedical engineering major for outstanding achievement in academics and leadership, contributions to research, and service to the university, department or community

• The Biomedical Engineering Chair’s Award for outstanding academic achievement and service to the biomedical engineering community

• The Biomedical Engineering Faculty Award for outstanding academic achievement, and service to the biomedical engineering community

• The Biomedical Engineering Research Award for outstanding performance in biomedical engineering research combined with outstanding academic achievement

• The Biomedical Engineering Scholarship Award

• The Cristina A. Camardo Award to a biomedical engineering student in recognition of his or her leadership and service within the university community

• The Srinivasa (Vasu) P. Gutti Chairman’s Award to a biomedical engineering student for outstanding scholarship and leadership in biomedical engineering

• Outstanding Industrial Senior Project Presentation Award

• The Gheorghe and Claudia Mateescu Award for Research in Imaging

• The J. Thomas Mortimer Cooperative Education Award

• Outstanding Industrial Experience Award

Chemical Engineering

• The Monroe J. Bahnsen Award to a senior for achievement in chemical engineering whose work in design and research projects has been outstanding.

• The Connie Ilcin Award to the student who exhibits outstanding performance in chemical engineering

• The Carl F. Prutton Chemical Engineering Award to the senior whose academic performance merits his or her selection as outstanding.

• The William H. Schuette Memorial Award to an outstanding senior in chemical engineering

• The A. W. Smith Prize to a senior for academic achievement in chemical engineering in the junior and senior years

Chemistry

• The Analytical Chemistry Award

• The Hippolyte Gruener Award to a student for merit in chemistry

• The Hypercube Scholar Award

• The Inorganic Chemistry Award for excellence in inorganic chemistry

• The Iota Sigma Pi/Frank Hovorka Prize to the woman chemistry major with the highest average after three semesters

• The Eli Lilly Award to a sophomore or junior chemistry major pursuing the B.S. degree

• The Charles F. Mabery Prize is awarded to the undergraduate or graduate student presenting the best thesis on a subject connected with research in the Department of Chemistry
- The Mateescu Citizenship Award
- The Merck Index Award to an excellent chemistry student
- The Ignacio Ocasio Freshman Chemistry Achievement Award for the highest achievement in freshman chemistry
- Polymer Valley Chemical Undergraduate Research Award
- The Carl F. Prutton Prize for scholarship in chemistry to a student pursuing a BS degree
- The Olin Freeman Tower Prize for excellence in physical chemistry
- The W. R. Veazey Prize to a student with the highest academic achievement in physical chemistry courses

Civil Engineering
- The Kenneth M. Haber Award to the outstanding senior in civil engineering
- The Roy Harley Prize to a promising senior or graduate student in civil engineering
- The Craig J. Miller Memorial Award to a student who has shown outstanding academic achievement
- The Allison C. Neff Memorial Award in recognition of high proficiency in professional studies and participation in professional activities to a junior whose major field is civil engineering
- The Richard and Opal Vanderhoof Award to an outstanding senior in civil engineering

Classics
- The Crawford Summer Scholarship to the American School of Classical Studies in Athens
- The Abraham Lincoln Fuller Prizes for excellence in the study of Greek or Latin
- The Emma Maud Perkins Prize for excellence in classical studies

Cognitive Science
- The Cognitive Science Award to the graduating senior for outstanding academic achievement in cognitive science
- The Culture and Cognition Award

Dance
- The Lily Dreyfuss Memorial Award for excellence in dance

Economics
- The Robert N. Baird Award for academic excellence and leadership in extracurricular activities
- The Marvin J. Barloon Book Award for outstanding performance in economics
- The Dean’s Achievement Award for scholarship and leadership in economics
- The Gardiner Scholarship to a junior majoring in economics and also interested in finance
- The H. W. Kniesner Prize to an outstanding senior in economics
- The James Dysart Magee Award to an outstanding student in economics for the senior year
- The Howard T. McMyler Award to an outstanding student majoring in economics

Electrical Engineering and Computer Science
- The ACM Award to the senior judged by the student chapter of the Association for Computing Machinery most likely to have an outstanding professional career
- The Chair’s Award to a student in the Department of Electrical Engineering and Computer Science who shows exceptional academic or leadership potential
- The Donald P. Eckman Award to the outstanding senior in systems and control engineering
- The Electrical Engineering and Computer Science Award for the best senior project
- The Electrical Engineering Service Award to the senior performing outstanding service to his or her class
• The IEEE/HKN Award to the senior judged by the student chapters of the Institute of Electrical and Electronics Engineers and Eta Kappa Nu to possess the qualities necessary for an outstanding professional career in a general field of electrical engineering

• The National Electrical Engineering Consortium William L. Everitt Award to a student who has excelled academically in communications or computers

• The Andrew R. Jennings Award to a senior for excellence in Computer Engineering and Sciences

• The Carolyn J. and John A. Massie ’66 Prize for Computer Engineering and Science awarded to the outstanding junior in computer engineering and science with exceptional research and leadership potential

• The Carolyn J. and John A. Massie ’66 Prize for Computer Engineering and Science awarded to the outstanding sophomore in computer engineering and science with exceptional research and leadership potential

• The W. Bruce Johnson Award to a senior for an outstanding project in the area of electrical sciences and applied physics

• The EECS Research Award to the senior demonstrating exceptional research potential

• The Undergraduate Alumni Capital Award in Systems and Control Engineering to a senior for academic excellence and professional promise.

Engineering

• First Robotics Scholarship

English

• The Charles E. Clemens Award for talent and accomplishment in writing

• The Finley Foster/Emily M. Hills Poetry Prize for the best poem or group of poems

• The Emily M. Hills Award for the best poem or essay written by a woman in the College of Arts and Sciences

• The Holden Prize for the best English paper written by an upperclass student

• The Kennedy Prize for creative work in English

• The Edith Garber Krotinger Prize for excellence in creative writing

• The Eleanor Leuser Award for outstanding writing for or about children by a student enrolled in a creative writing course at the university

• The Nemet Scholarships for the demonstration of excellence in creative writing

• The Harriet Pelton Perkins Prize to an outstanding student majoring in English

• The Helen B. Sharnoff Award for formal poetry submitted by undergraduate students

Environmental Studies

• The Henry David Thoreau Award for an outstanding senior in environmental studies

Geological Sciences

• The Charles S. Bacon Award for outstanding contributions to the Department of Geological Sciences

• The Philip O. Banks Award for outstanding academic achievement in geological sciences

• The Carol W. Walker Award for an outstanding senior project in the Department of Geological Sciences

History

• The Donald Grove Barnes Award to a senior for excellence in history

• The Clarence H. Cramer Award for excellence in research and writing of history

• The Annie Spencer Cutter Prize to a senior for outstanding achievement in history

• The History Department Award for outstanding achievement in history

• The Sigma Psi Prize for excellence in history

• The John Hall Stewart Prize for excellence in historical studies

Judaic Studies

• The Ira and Ruth Bressler Prize to a student who has done outstanding work in the area of Jewish studies
• The Eudese and Elmer Paull Prize to one or several undergraduate or graduate students who demonstrate an interest in Jewish studies or Jewish contemporary life

**Macromolecular Science and Engineering**

• The Hal Loranger Award to the outstanding senior in polymer science
• The Samuel Maron Memorial Award to an undergraduate for excellence in polymer research

**Management**

• The Robert O. Berger Jr. Award to a junior who demonstrates overall achievement in scholarship, as well as notable community participation and leadership
• The Nellie Chittenden Carlton Prize to a senior in management whose outstanding work in the general field of economics shows the greater promise
• The Dean’s Achievement Award for excellence in scholarship and leadership in management
• The Excellence in Finance Award
• The Excellence in Marketing Award
• The Financial Executive's Institute Award
• The Roulston Performance Award for outstanding performance in management
• The Kevin J. Semelsberger Prize for excellence in management
• The Iris Wolstein Award for Excellence in Business Venture History to a student whose work on projects and/or course work related to the study of Cleveland business venture history is determined to have made a significant contribution to the understanding of the business development in Northeast Ohio and related environs
• The Wolstein Family Award for Excellence in Business Venture Plan Development to a student enrolled in a major or minor in Weatherhead undergraduate programs whose business venture development plan is considered to have the highest promise to be successfully initiated

**Materials Science and Engineering**

• The Wesley P. Sykes Prize to a senior majoring in materials science and engineering who shows outstanding ability in scientific research, especially as evidenced by the quality of his or her senior project.
• The Professor Jack F. Wallace Award to the materials science and engineering student who embodies the dedication and spirit of Professor Wallace

**Mathematics**

• The Case Alumni Award to an outstanding senior mathematics major
• The Chair’s Award to a student contributing to the intellectual life of the majors program
• The Max Morris Prize to an outstanding undergraduate student in mathematics who is pursuing the BS degree.
• The Webster Godman Simon Mathematics Award to a sophomore or junior pursuing a BA degree, for excellence in mathematics

**Mechanical and Aerospace Engineering**

• The Robert and Leona Garwin Prize to a student who has demonstrated theoretical scientific ability with experimental competence and inventive talent
• The Gustav Kuerti Award to the senior in mechanical and aerospace engineering who has demonstrated the highest level of scholarship
• The Anish Shah ’91 Award to an outstanding senior in mechanical and aerospace engineering based on academic achievement, extra-curricular activities, and community service
• The Fred Hale Vose Prize to the senior in mechanical engineering who has demonstrated the greatest promise for professional leadership

**Modern Languages**

• The Arabic Undergraduate Book Prize for high achievement in Arabic
• The Louise Burke French Prize to an outstanding French student
• The Chinese Undergraduate Book Prize for high achievement in Chinese
• The Susie Scott Christopher Prize for excellent contributions to the French program
• The Department of Modern Languages and Literatures Award for outstanding achievement
• The Emile B. deSauze Award for attaining the highest honors in modern languages and literatures
• The Folberth German Prize for excellence in German language and literature
• The French Undergraduate Book Prize for high achievement in French
• The German Undergraduate Book Prize for high achievement in German
• The Hebrew Undergraduate Book Prize for high achievement in Hebrew
• The Italian Undergraduate Book Prize for high achievement in Italian
• The Japanese Undergraduate Book Prize high achievement in Japanese
• The Max Kade Excellence in German Award
• The Florence Keuerleber Prize to an undergraduate student who has seriously pursued and excelled in the study of a modern language while majoring in another area
• The Russian Undergraduate Book Prize for high achievement in Russian
• The Spanish Undergraduate Book Prize for high achievement in Spanish

Music
• The Arthur H. Benade Prize to a senior with a major other than music who has made a notable contribution to music on campus during his or her undergraduate years
• The Charles E. Clemens Prize for talent and accomplishment in music
• The Doris Young Hartsock Prize for outstanding performance in music education
• The Kennedy Prize for creative work in music
• The Lyman Piano Award

• The Joan Terr Ronis Recital Prize to an outstanding undergraduate majoring in music who has made an exceptional contribution to the musical life of the University

Nursing
• The Bolton Scholar Award for Excellence in Acute Care Nursing
• The Bolton Scholar Award for Excellence in Community Health Nursing
• The Bolton Scholar Award for Excellence in Critical Care Nursing
• The Bolton Scholar Award for Excellence in Gerontology
• The Bolton Scholar Award for Excellence in Maternal-Child Nursing
• The Bolton Scholar Award for Excellence in Nursing Informatics
• The Bolton Scholar Award for Excellence in Nursing Research
• The Bolton Scholar Award for Excellence in Pediatric Nursing
• The Bolton Scholar Award for Excellence in Psychiatric/Mental Health Nursing
• The Director’s Award for Outstanding B.S.N. Graduate

Nutrition
• The Mary Eliza Parker Award for excellence in nutrition and dietetics

Philosophy
• The Truman P. Handy Philosophical Prizes to outstanding juniors or seniors for excellence in philosophy

Physical Education
• The Emily Russell Andrews Award to the senior woman who makes the greatest contribution to the physical education department through scholarship, leadership, participation, and service
• The Philip K. “Nip” Heim Award to the senior man who makes the most outstanding contribution to Case Western Reserve University through the athletic program
• The Dorothy L. Hoza Award to the outstanding freshman, sophomore or junior who has made a strong contribution to the women’s intercollegiate sports program, maintained a high level of academic achievement, shown leadership in the team, and contributed service to the department and university

• The Patricia B. Kilpatrick Award to the four-year varsity participant with the highest grade point average

• The Arthur P. Leary Award to the outstanding first-, second- or third-year student who has demonstrated leadership, good sportsmanship, maintained good academic standing, and made contributions to the department and university

Physics

• The B.S. Chandrasekhar Prize awarded upon completion of the junior year to a physics major who has demonstrated superior performance

• The Leslie L. Foldy Award to the outstanding senior in physics

• The Krumhansl Family Prize to an outstanding undergraduate woman for her academic accomplishments in the sciences

• The Dayton C. Miller Award to an outstanding senior in physics for the best thesis

• The Elmer C. Stewart Memorial Award to an outstanding senior in Physics who has demonstrated achievement in the applications of physics

• The Senior Award for service and scholarship in physics

Political Science

• The James Dysart Magee Award for the senior year, to an outstanding student in social and behavioral sciences

• The Flora Stone Mather Alumnae Award for outstanding academic performance in political science

Psychological Sciences

• The Stephen Bednarik Memorial Award to an outstanding senior majoring in psychology

• The James Dysart Magee Award for the senior year, to an outstanding student in social and behavioral sciences

Religious Studies

• The Ratner Family Prize to a graduating senior for the highest academic achievement in the study of religion

Sociology

• The Stella Berkeley-Friedman Award to a graduating senior for the highest academic achievement in the study of sociology

• The Robert C. Davis Award for demonstrated commitment to sociological studies

• The Mark Lefton Award for excellence in sociological studies

• The James Dysart Magee Award for the senior year, to an outstanding student in social and behavioral sciences

• The Schermerhorn Award for an outstanding student in sociology

Theater

• The Dionysus Award for an outstanding contribution to theater for a student not majoring in theater arts

• The Barclay Leathem/Nadine Miles Award for creativity and general excellence in theater

Women’s and Gender Studies

• The George Sand Award in Women’s and Gender Studies to a graduating senior majoring or minoring in the field for excellence in academic performance

• The Sojourner Truth Award to an outstanding student who combines academic excellence in Women’s and Gender Studies with commitment to community service, advocacy of women’s and gender-related issues, and activism

• The Mary Wollstonecraft Award to a continuing undergraduate student for excellence in Women’s and Gender Studies courses
Awards for Study Abroad

- The Brookes Friebolin Award to an outstanding student for study in France
- The Eva L. Pancoast Memorial Fellowship for graduating senior women in the College of Arts and Sciences or women students in the School of Graduate Studies interested in extending their education by foreign travel or study
- The Alice Seagraves Award to outstanding students for study abroad

Collegiate Awards

- The Robert J. Adler Award to the senior student in the Case School of Engineering who, through high scholarship, technical creativity, and service to his or her peers, best exemplifies the ideals and talents of Professor Robert J. Adler
- The Bolton Scholar Award for excellence in leadership and community service
- The Bolton Scholar Award for Excellence in Nursing for the student who has attained the highest academic record at the junior level
- The Bolton Scholar Award for Excellence in Nursing for the student who has attained the highest academic record at the senior level
- The Bolton Scholar Award for Excellence in Nursing for the student who has attained the highest academic record at the sophomore level
- The Carol and Edward Breznyak G’64 Cooperative Education Student of the Year Award to a student in the Case School of Engineering who has demonstrated outstanding performance in the Cooperative Education Program based on industry evaluations, written reports and student initiative
- The Case Alumni Association Prize for Achievement to the senior with the best academic record in the Case School of Engineering
- The Case Western Reserve University Women’s Club Award for exemplary intellectual contributions in First Seminar
- The Case Western Reserve University Women’s Club Prize for a student completing an outstanding Capstone Project
- The Edward J. “Ted” Corcoran Award to a senior for outstanding leadership, character and service
- The Russell A. Griffin Award to a senior in the College of Arts and Sciences who has made the most significant contribution to campus life
- The George T. Hunt Awards to a junior and a senior outstanding in leadership, scholarship, and service
- The Junior Award of the College of Arts and Sciences to juniors with the best academic records at the end of five semesters
- The Matthew Leskiewicz Award to a senior in the Weatherhead School of Management for outstanding leadership and service
- The Louis K. Levy Prize for an outstanding junior in the College of Arts and Sciences
- The P. G. “Jerry” Lind Award for a graduating senior in engineering or science who has made a significant contribution to campus life
- The Flora Stone Mather Alumnae Award for outstanding academic performance in the humanities
- The Outstanding Junior Awards of the Case School of Engineering to juniors with the best academic records at the end of five semesters in the Case School of Engineering
- The Outstanding Sophomore Awards of the Case School of Engineering to the sophomores with the best academic record at the end of three semesters in the Case School of Engineering
- The Phi Beta Kappa Prize to sophomores with the best academic records in a liberal arts curriculum after three semesters
- The Harriet Levion Pullman Award to a sophomore outstanding in scholarship, leadership, and service
- The John Schoff Millis Award to the senior with the best academic record in the College of Arts and Sciences
- The Sylvia Green Rosenberg Award to a part-time or full-time non-traditional student
- The Robert L. Shurter Prize to a senior for leadership in extracurricular activities in the 2009-2010a Award to an outstanding premedical student for the senior year
- The Joseph Skigin Memorial Award to an outstanding premedical student for the senior year
• The Kent H. Smith Award to an outstanding senior displaying extraordinary leadership, character, and scholarship in the Case School of Engineering

• The Stephanie Tubbs-Jones Award for significant contributions to campus life, scholarship and community service

• The Weatherhead School of Management Award to a senior, for outstanding achievement in the Weatherhead School of Management

• The Stanley E. Wertheim Prize for an outstanding junior in the Case School of Engineering who has demonstrated leadership skills through involvement in campus or co-op activities

• The Peter Witt Scholarship to a deserving student who demonstrates a vital and active interest in the improvement of life in Cleveland
## Undergraduate Majors and Minors

### Majors and Minors

<table>
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<tr>
<th>Department Code</th>
<th>Subject</th>
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<th>Available as</th>
<th>Foundation Curriculum</th>
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Major* Available only as 2nd major for a BA; may be sole major for a BA student who also completes a BS.

**Major**

A program of ten or more courses (required)

**Minor**

Minors are not required. Students have the option of completing a minor in a discipline other than the major. A minor concentration normally requires 15-18 semester hours and will be indicated on a student's transcript if the following requirements are fulfilled:

1. A minor program shall consist of no fewer than 15 and no more than 18 semester hours of specified course work.
2. The responsibility for designating the requirements for a minor shall lie with the department or program offering the minor.
3. With the exception of minors offered by the Case School of Engineering, students must earn a minimum cumulative average of 2.000 for all courses taken to satisfy minor requirements and for which grades are averaged. Transfer students who wish to complete a minor must complete at Case Western Reserve University at least half the requirements for the minor.

**Foundation Curriculum**

For each degree/major a student must complete the foundation curriculum required for that degree/major:

- **A&S - SAGES** = based on College of Arts and Sciences - SAGES
- **EC - SAGES** = based on Case School of Engineering - SAGES CORE
- **FPB - SAGES** = based on FPB School of Nursing – SAGES
- **WSOM - SAGES** = based on Weatherhead School of Management - SAGES
Undergraduate Non Degree Students

Non-Degree Students

Transient (Visiting) Students

A transient student is one who has begun his or her education at another college or university and intends to return there. The university permits full- or part-time study as a transient student in the summer as well as during the fall and spring semesters. Enrollment must be for credit-bearing courses.

Applications for enrollment as a transient student may be obtained from the Office of Undergraduate Studies, 357 Sears Building. Before enrollment, the transient student must present a statement of good standing from the registrar of his or her home college. A degree candidate from another institution may not enroll as a transient student at Case Western Reserve University if the student would not be eligible to enroll for that semester at his or her home institution. Exceptions may be granted by appeal to the Academic Standing Board, c/o the Office of Undergraduate Studies.

Enrollment is limited to 30 semester hours and is subject to the regulations of the student's college. Transient students must meet all requirements for prerequisites before being admitted to specific courses. Transient students are expected to perform at the same academic standards as degree candidates. In particular, transient students whose records would make them eligible for separation as degree candidates may not continue as transient students unless they successfully petition the Academic Standing Board.

Transient students are not eligible to receive financial aid from Case Western Reserve University. If the student's home institution has entered into a consortium agreement with Case Western Reserve University, the student should inquire of the home institution regarding eligibility to receive aid through the home institution.

Non-Degree Students

Adults who do not already hold a bachelor's degree may apply through the Office of Undergraduate Studies to enroll for credit in courses for which their education or experience has qualified them, even though they are not pursuing a baccalaureate degree. These non-degree students may study full- or part-time and enroll in the same classes as degree students. They are required to perform up to the same academic standards as degree students.

Non-degree students may be eligible for admission to candidacy for an undergraduate degree program if they meet the requirements for admission to the university. Courses taken for credit as a non-degree student may be applied toward the degree upon acceptance as a degree candidate. A non-degree student who wishes to become a degree candidate must apply through the Office of Undergraduate Admission.

Persons who already hold degrees and wish to continue their studies without actively pursuing an additional degree are welcome to apply to the School of Graduate Studies.

Pre-College Scholars

The Pre-College Scholars Program (http://www.cwru.edu/provost/ugstudies/precollge.htm) at Case Western Reserve University is designed to give highly motivated and able secondary school students the opportunity to enroll in challenging college courses prior to graduation from high school, either in the summer or during the academic year. Admission to the Pre-College Scholars Program is selective and competitive. Case has limited seats available for this program and preference is given to qualified juniors and seniors who have exhausted academic options at their high schools and who are looking for unique educational opportunities. Students must have pursued a rigorous curriculum and achieved academic excellence in all course work. Additional factors considered in admission are the applicant's standardized test scores (ACT, PSAT, SAT, or other tests of aptitude and/or academic achievement), and the applicant's academic goals and level of maturity. Pre-College Scholars attend regularly scheduled classes with undergraduate students at Case Western Reserve, and must be able to work well independently at the college level. Questions about the program should be directed to the Office of Undergraduate Studies at 216-368-2928.

Continuing Education

The university provides academic, non-credit courses for those who seek self-enrichment and professional advancement. Courses are presented both on and off campus. Special workshops and seminars are designed and presented by faculty
and in cooperation with various community groups throughout the academic year. Examples of three such programs follow. Participants in these programs are considered students at the university and may obtain student ID cards which entitle them to use the University Libraries, receive a student discount at the bookstore, and take advantage of student rates at campus events. Part-time parking privileges in university assigned parking lots are also available.

Senior Scholars

This program is designed for men and women 50 years of age and older who seek non-credit, university-level courses and the intellectual stimulation provided by being on a college campus.

Three seminars are presented each semester. The majority are taught by university faculty and meet once a week for 11 consecutive weeks. Senior Scholars pay a single fee at the beginning of the academic year which entitles them to two semesters of specially-designed seminars and forums. They may participate in all or any parts of the program they choose.

Registration for this program is handled by the Office of Continuing Education, 329 Bioenterprise Building, 216-368-2090.

Special Audit

The Special Audit Program provides the adult student with the opportunity to attend a regular university course as a serious but informal observer at half the regular tuition. This program is available only to those not enrolled in a degree program at Case Western Reserve University. Special audit students receive no grades and no academic credit for the courses attended. No transcripts will be issued, but a certificate of attendance will be provided if requested.

Registration for this program is handled by the Office of Undergraduate Studies. No transcripts are necessary to register.

Course Audit Program for Senior Citizens

Case Western Reserve University's Course Audit Program for Senior Citizens (http://www.case.edu/provost/seniorauditprogram/index.html) (CAPSC) allows senior citizens (age 65 and older) to take on campus courses at a reduced tuition rate.
Weatherhead School of Management Undergraduate Degree Requirements

Bachelor of Science Degree
(Weatherhead School of Management)

Candidates for the Bachelor of Science in Accounting and the Bachelor of Science in Management degrees, in addition to meeting the general requirements for bachelor’s degrees as described above, must also complete the following requirements:

1. A minimum of 122 hours.
2. The Weatherhead School of Management SAGES General Education Requirements.
3. A minimum of 30 semester hours of courses at the 300-400 level.
4. The requirements for a major field as presented in this bulletin in the section devoted to each department or program. For all courses taken in the major department and for which grades are averaged, and for all courses taken to satisfy major requirements and for which grades are averaged, a candidate for a BS from the Weatherhead School of Management must earn a minimum cumulative average of 2.000. Major requirements include all required and elective work completed in the major department combined with required courses completed in related fields. Transfer students must complete at Case Western Reserve University at least half the hours required for the major.

Bachelor of Science degrees conferred by the Weatherhead School of Management are offered in the following fields:

- Accounting
- Management

Weatherhead School of Management

The SAGES General Education Requirements of the Weatherhead School of Management are based upon the SAGES General Education Requirements of the College of Arts and Science, and provide a broad educational foundation for programs in accounting and management, leading to the Bachelor of Science degree.

SAGES is an innovative undergraduate experience designed to establish foundations for academic inquiry. Students fulfill their Weatherhead School of Management General Education Requirements with a sequence of specially developed seminars and selected courses. Course credit earned by Advanced Placement, International Baccalaureate, proficiency examinations, and transfer may be used to satisfy general education requirements.

SAGES Program Seminars

The First Seminar*

(4 semester hours, to be taken in the first semester of enrollment)

The First Seminar focuses on the development of critical thinking and communication skills through the use of a variety of approaches, media, and perspectives to explore the human mind and the nature of inquiry. This course is designed to strengthen writing and analytical skills while building a foundation in ethics, information literacy, and cultural diversity. Select from:

- First Seminar: FSCC 100 First Seminar
- First Seminar: Natural World (FSNA 1xx)
- First Seminar: Social World (FSSO 1xx)
- First Seminar: Symbolic World (FSSY 1xx)

SAGES General Education Requirements of the
Transfer Students only: Transfer students who have completed the English composition/expository writing requirement with a grade of C or higher at the college/university at which they previously matriculated will receive transfer credit for FSCC T100 (3 – 6 semester hours) and will be required to complete a supplemental 1-semester hour SAGES introductory seminar – FSTS 100 SAGES Transfer Supplement.

University Seminars

(6 semester hours, minimum of two seminars, to be completed in the first two years of enrollment as specified below)

After completion of the First Seminar with a passing evaluative grade, students must complete two University Seminars, with each seminar selected from a different thematic group and from a thematic group different from that of the student’s First Seminar. [Students already enrolled under the SAGES Program or who matriculate as undergraduate degree candidates prior to August 2012 must complete two seminars from different thematic groups; one of these may fall in the same thematic group as the student’s First Seminar.] Each University Seminar explores one of three themes, with the content determined according to the interests of the faculty. University Seminars provide continued experience in critical reading, writing, and oral communication as well as information literacy, ethics, and cultural diversity. Select from:

- University Seminar: Thinking About the Natural World (USNA 2xx)
- University Seminar: Thinking About the Social World (USSO 2xx)
- University Seminar: Thinking About the Symbolic World (USSY 2xx)

University Composition Requirement

Students develop a Writing Portfolio comprised of final graded writing assignments from the First Seminar and University Seminars. The Writing Portfolio is submitted for evaluation after completing the final University seminar.

Department Seminar

(3 semester hours)

The Department Seminar includes seminar-based discussion as well as instruction and experience in the kinds of writing characteristic of the Department Seminar’s discipline. The Department Seminar may be taken in the department of the student’s major or in another department. A course used to fulfill the Department Seminar Requirement may not also be used to fulfill a Breadth Requirement.

Senior Capstone

The Senior Capstone assimilates the knowledge and skills gained throughout the educational process. Students engage in a unique one or two semester experience designed in consultation with a faculty member. Each Senior Capstone must include key elements (3 – 6 semester hours):

1. Demonstration of critical thinking and writing skills;
2. Regular oversight by the Capstone advisor;
3. Periodic reporting of progress;
4. Regular writing (e.g. drafts, progress reports, critiques) throughout the project including a final written report which may be a thesis or equivalent document associated with the project or activity (e.g., such pursuits as performance, experiment, live case analysis, or creative writing), as approved by the department of capstone origin; and
5. Oral reports including a final public presentation at the Senior Capstone Fair, a conference, a performance, a public lecture, a teaching presentation, or another setting, as approved by the department of capstone origin.

Courses meeting this requirement include the designation “Approved SAGES Capstone” in their course descriptions. Some majors include and specify a senior capstone.

Physical Education

(Must total 2 full semesters at zero credits)

Students choose from half-semester and full-semester course offerings to be completed in the first year.
Breadth Requirements
(at least 27 semester hours – minimum of nine 3 or 4-semester hour courses)

NOTE: Two courses used to fulfill requirements for the major may be used also to fulfill the breadth requirements.

Arts and Humanities
Two 3- or 4-semester hour Arts and Humanities courses. Select from (6 – 8 semester hours):
  • Arabic (ARAB)
  • Art History (ARTH)
  • Art Studio (ARTS)
  • Chinese (CHIN)
  • Classics (CLSC)
  • Dance (DANC)
  • English (ENGL)
  • French (FRCH)
  • German (GRMN)
  • Greek (GREK)
  • Hebrew (HBRW)
  • History (HSTY)
  • Italian (ITAL)
  • Japanese (JAPN)
  • Latin (LATN)
  • Music - General (MUGN)
  • Music - History (MUHI)
  • Music - Theory (MUTH)
  • Philosophy (PHIL)
  • Portuguese (PORT)
  • Religion (RLGN)
  • Russian (RUSN)
  • Spanish (SPAN)
  • Theater (THTR)
  • World Literature (WLIT)

Natural and Mathematical Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>MATH 125</td>
<td>Math and Calculus Applications for Life,</td>
<td>4</td>
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<tr>
<td></td>
<td>Managerial, and Social Sci I</td>
<td></td>
</tr>
<tr>
<td>MATH 126</td>
<td>Math and Calculus Applications for Life,</td>
<td>4</td>
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<tr>
<td></td>
<td>Managerial, and Social Sci II</td>
<td></td>
</tr>
<tr>
<td>STAT 207</td>
<td>Statistics for Business and Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Science I</td>
<td></td>
</tr>
</tbody>
</table>

Two Natural Sciences courses * 6
Total Units 17

* Any two 3- or 4-semester hour Natural Science courses. Select from:
  Astronomy (ASTR), Biochemistry (BIOC), Biology (BIOL), Chemistry (CHEM), Geology (GEOL), Nutrition (NTRN), Physics (PHYS)

Social Sciences

Management majors:
Any two 3-semester hour Social Science courses except ECON 102 Principles of Microeconomics*, ECON 103 Principles of Macroeconomics*, or ECON 326 Econometrics**. Select from:
Anthropology (ANTH), Cognitive Science (COGS), Communication Sciences (COSI), Economics (ECON), Political Science (POSC), Psychology (PSCL), Sociology (SOCI)

Accounting majors

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>COSI 200</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>or COSI 280</td>
<td>Organizational Communication</td>
<td></td>
</tr>
<tr>
<td>Social Science course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
* ECON 102 Principles of Microeconomics and ECON 103 Principles of Macroeconomics are included in Accounting and Management major requirements.

** ECON 326 Econometrics is a Management major requirement.

*** Any 3-semester hour Social Science course except ECON 102 Principles of Microeconomics* or ECON 103 Principles of Macroeconomics*. Select from: Anthropology (ANTH), Cognitive Science (COGS), Communication Sciences (COSI), Economics (ECON), Political Science (POSC), Psychology (PSCL), Sociology (SOCI)
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