Augustana Faculty
Program and Course Changes
For Early Implementation in Fall 2017

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
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<tbody>
<tr>
<td><strong>Courses</strong></td>
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<tr>
<td>{…no changes until…}</td>
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<tr>
<td><strong>Classification of Courses</strong></td>
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<tr>
<td>In the determination of eligibility for an Augustana Faculty degree, courses are classified as follows:</td>
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<tr>
<td>1. The following are classified as Science courses:</td>
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<tr>
<td>a. all Biology (AUBIO).</td>
<td>a. all Biology (AUBIO).</td>
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<td>b. all Chemistry (AUCHE).</td>
<td>b. all Chemistry (AUCHE).</td>
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<tr>
<td>e. Economics AUECO 206, AUECO 309, AUECO 311, AUECO 449.</td>
<td>e. Economics AUECO 206, AUECO 309, AUECO 311, AUECO 449.</td>
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<tr>
<td>g. Geography AUGE0 120, AUGE0 132, AUGE0 210, AUGE0 218, AUGE0 230, AUGE0 231, AUGE0 232, AUGE0 233, AUGE0 301, AUGE0 320, AUGE0 324, AUGE0 334, AUGE0 342, AUGE0 351, AUGE0 354, AUGE0 401, AUGE0 420, AUGE0 421, AUGE0 425.</td>
<td>g. Geography AUGE0 120, AUGE0 132, AUGE0 210, AUGE0 218, AUGE0 230, AUGE0 231, AUGE0 232, AUGE0 233, AUGE0 301, AUGE0 320, AUGE0 324, AUGE0 334, AUGE0 342, AUGE0 351, AUGE0 354, AUGE0 401, AUGE0 420, AUGE0 421, AUGE0 425.</td>
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<tr>
<td>i. Management AUMGT 206.</td>
<td>i. Management AUMGT 206.</td>
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<td>j. all Mathematics (AUMAT).</td>
<td>j. all Mathematics (AUMAT).</td>
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<tr>
<td>k. Physical Education AUPED 112,</td>
<td>k. Physical Education AUPED 112,</td>
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</tbody>
</table>
AUPED 215, AUPED 216, AUPED 232, AUPED 251, AUPED 314, AUPED 317, AUPED 343, AUPED 344, AUPED 374, AUPED 375, AUPED 393, AUPED 414, AUPED 497.
l. all Physics (AUPHY).
m. Psychology (AUPSY) courses having odd numbers (last digit is 1, 3, 5, 7, or 9).
n. all Statistics (AUSTA).

2) The following courses are designated as Social Science courses (and for the purposes of the BA are also categorized as Arts courses):

a) Classics AUCLA 221, AUCLA 222, AUCLA 223, AUCLA 224.
b) all Community Service-Learning (AUCSL), except AUCSL 361.
c) all Crime and Community (AUCRI).
d) all Economics (AUECO) except AUECO 206, AUECO 309, AUECO 311, AUECO 449.
e) Environmental Studies AUENV 202, AUENV 260, AUENV 302, AUENV 327, AUENV 328, AUENV 341, AUENV 344, AUENV 358, AUENV 375, AUENV 402, AUENV 458, AUENV 475.
f) Geography AUGEO 150, AUGEO 242, AUGEO 302, AUGEO 341, AUGEO 402.
g) all Global and Development Studies (AUGDS).
h) all History (AUHIS).
i) all Indigenous Studies (AUIND).
j) Interdisciplinary Studies AUIDS 121, AUIDS 160, AUIDS 221, AUIDS 230, AUIDS 250, AUIDS 260, AUIDS 292, AUIDS 384.
k) all Language Studies (AULAN).
l) Management AUMGT 323, AUMGT 360, AUMGT 422.
m) Philosophy AUPHI 240, AUPHI 241, AUPHI 340.
n) all Physical Education (AUPED) except AUPED 112, AUPED 215, AUPED 216, AUPED 232, AUPED 251, AUPED 275, AUPED 282, AUPED 314, AUPED 317, AUPED 343, AUPED 344, AUPED 374, AUPED 375, AUPED 393, AUPED 414, AUPED 497.
o) all Political Studies (AUPOL).
p) all Psychology (AUPSY) courses having even numbers (last digit is 0, 2, 4, 6, or 8).

AUPED 215, AUPED 216, AUPED 232, AUPED 251, AUPED 314, AUPED 317, AUPED 343, AUPED 344, AUPED 374, AUPED 375, AUPED 393, AUPED 414, AUPED 497.
l. all Physics (AUPHY).
m. Psychology (AUPSY) courses having odd numbers (last digit is 1, 3, 5, 7, or 9).
n. all Statistics (AUSTA).

2) The following courses are designated as Social Science courses (and for the purposes of the BA are also categorized as Arts courses):

a) Classics AUCLA 221, AUCLA 222, AUCLA 223, AUCLA 224.
b) all Community Service-Learning (AUCSL), except AUCSL 361.
c) all Crime and Community (AUCRI).
d) all Economics (AUECO) except AUECO 206, AUECO 309, AUECO 311, AUECO 449.
e) Environmental Studies AUENV 202, AUENV 260, AUENV 302, AUENV 327, AUENV 328, AUENV 341, AUENV 344, AUENV 358, AUENV 375, AUENV 402, AUENV 458, AUENV 475.
f) Geography AUGEO 150, AUGEO 242, AUGEO 302, AUGEO 341, AUGEO 402.
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l) Management AUMGT 323, AUMGT 360, AUMGT 422.
m) Philosophy AUPHI 240, AUPHI 241, AUPHI 340.
n) all Physical Education (AUPED) except AUPED 112, AUPED 215, AUPED 216, AUPED 232, AUPED 251, AUPED 275, AUPED 282, AUPED 314, AUPED 317, AUPED 343, AUPED 344, AUPED 374, AUPED 375, AUPED 393, AUPED 414, AUPED 497.
o) all Political Studies (AUPOL).
8). q) Religion AUREL 260, AUREL 266.
   r) Scandinavian Studies AUSCA 231.
   s) Spanish AUSPA 240, AUSPA 241, AUSPA 250, AUSPA 251, AUSPA 252, AUSPA 253, AUSPA 340, AUSPA 341.
   t) all Sociology (AUSOC).

{…no further changes…}

AUBIO 334 - Field Studies in Environmental Science and Ecology
★ 3 (fi 6) (Spring/Summer, variable) A 3-week field course that provides students an opportunity to develop skills in research and study design in the field of Environmental Science and Ecology. Students will live in a field camp to allow them to fully immerse themselves in their research projects, which could cover the range of ecology, botany, geography, environmental science, and/or environmental studies. Course content also includes instruction in key aspects of conservation biology and resource management. Prerequisites: AUSTA 215 and AUENV 120 or AUGEO 120 and one of AUGEO 218, AUGEO 230, AUENV 252, AUBIO 253. Notes: Credit may be obtained for only one of AUBIO 334, AUENV 334 and AUGEO 334.

AUDRA 350 - Introduction to Directing
★ 3 (fi 6) (either term, 0-6L-0) Fundamentals of directing explored through practical exercises. Prerequisites: AUDRA 141 and consent of the instructor. Requires payment of additional student instructional support fees. Refer to the Fees Payment Guide in the University Regulations and Information for Students section of the Calendar.

AUECO 252 - India Tour Orientation
★ 3 (fi 6) (second term, 3-0-0) Examination of the intersection between religion and development in India. Students research and present on a particular topic relevant to the intersection of religion and development, as well as participate in team building exercises. Issues such as health and safety, travel preparations, dealing with culture shock, and the regional geography of India will be covered. Prerequisite: One of AUREL 100, 283, AUECO 101, consent of the instructor. Notes: This is a prerequisite course for the India Tour (AUECO 254 or AUREL 266). Costs associated with the India Tour (3-weeks) and applicable tuition are the responsibility of the...
responsibility of the student. Enrolment is limited to 15 students. This course can only be taken by students who also register in AUECO 254 or AUREL 266. Credit may be obtained for only one of AUECO 252 or AUREL 260.

**AUECO 254 - India Tour**

★ 3 (fi 6) (Spring/Summer, variable) Three-week study tour of India that focuses on a chosen region of India in order to examine the intersection between religious belief and practice and development challenges. Students will be exposed to various development projects as well as an array of religious sites. It is expected that students will gain an in depth understanding of India, its cultural and religious diversity, and the challenges it faces in the 21st century. Students will be exposed to both rural and urban life. Prerequisite: AUECO 252 or AUREL 260.

Notes: Costs associated with this India Tour course and applicable tuition are the responsibility of the students. Enrolment is limited to 15 students. Credit may be obtained for only one of AUECO 254 and AUREL 266.

**AUENG 101 - Critical Reading, Critical Writing**

★ 3 (fi 6) (either term, 3-0-0) English 101 is a writing-intensive course designed to facilitate the transition of L2/ESL students into the regular academic stream at Augustana. Students in this course will develop written and oral communication skills by engaging with literary texts from a variety of genres. Fundamental, universally-applicable writing skills (grammar, diction, rhetorical strategies) will be taught in collaborative workshop settings. Through a series of reflective and interpretive writing assignments, the course will also train students in the practices of analytical reading and critical thinking. The ultimate aim of this course is to provide students with the necessary building blocks for university-level writing. Prerequisite: EAP 145 or equivalent (i.e., other L2/ESL students who were not required to take the Bridging Program).

**AUENG 318 - Creative Writing Long Manuscript, Novel**

★ 3 (fi 6) (two term, 1.5-0-0) Advanced study of fiction, toward a publishable end. Students will devise and complete a long manuscript project over the course of the year, and will take part in an intensive workshop process. Prerequisite: AUENG 215 and one of AUENG 314, AUENG 316 or AUENG 319.

**AUENG 318 - Creative Writing Long Manuscript, Novel**

★ 3 (fi 6) (variable, 1.5-0-0) Advanced study of fiction, toward a publishable end. Students will devise and complete a long manuscript project over the course of the year, and will take part in an intensive workshop process. Prerequisite: AUENG 215 and one of AUENG 314, AUENG 316 or AUENG 319.
AUENV 334 - Field Studies in Environmental Science and Ecology
★ 3 (fi 6) (Spring/Summer, variable) A 3-week field course that provides students an opportunity to develop skills in research and study design in the field of Environmental Science and Ecology. Students will live in a field camp to allow them to fully immerse themselves in their research projects, which could cover the range of ecology, botany, geography, environmental science and/or environmental studies. Course content also includes instruction in key aspects of conservation biology and resource management. Prerequisites: AUSTA 215 and AUENV 120 or AUGE 120 and one of AUGE 218, AUGE 230, AUENV 252, AUBIO 253. Notes: Credit may be obtained for only one of AUBIO 334, AUENV 334 and AUGE 334.

AUPED 281 - Explorations of the Canadian North
★ 3 (fi 6) (second term, 3-0-0) In this course students will examine the Canadian North from an experiential perspective. Students will study the many factors involved in an extended winter expedition in sub-arctic Canada and will spend two weeks in the North participating in dogsled expedition, seminars, personal narrative writing, and a variety of other outdoor activities. In addition, students will analyze narratives from the Canadian North, with a focus on the expedition region. This course includes a 17-day expedition during February Spring Break and the week following. Prerequisite: AUPED 184, 283, 284 or 286, or equivalent; consent of the instructor. Requires payment of additional instructional support fees. Refer to the Fees Payment Guide in the University Regulations and Information for Students section in the Calendar.

AUPED 284 Introduction to Outdoor Education – Canoeing
★ 3 (fi 6) (either term, 3-0-3). Introduction to theoretical and practical aspects of outdoor education. The course examines a variety of outdoor education theories and perspectives regarding leadership, group dynamics, and nature-human relationships. In addition, outdoor skills needed for wilderness canoe tripping will be developed. Note: The course requires participation on a multi-day overnight field trip. Students are required to provide personal outdoor clothing and equipment. Additional fees may be assessed. Pre-requisite: second-year standing. Note: Credit may only be received for one of AUPED 283 and 284.
AUPED 286 - Outdoor Education and Leadership
★ 3 (fi 6) (spring/summer, variable) Opportunity for self-awareness and personal and group leadership development through extended outdoor tripping and small-group living. The skills associated with intermediate/advanced backpacking, wilderness navigation, white water canoeing, and Leave No Trace camping are developed and practised. Prerequisites: AUPED 184, 283, 284 or equivalent; consent of the instructor. Corequisite: AUPAC 226 or 326. Notes: The course requires participation in field trips. A student must furnish their own outdoor clothing, footwear, and sleeping bag. Requires payment of additional student instructional support fees. Refer to the Fees Payment Guide in the University Regulations and Information for Students section of the Calendar.

AUPSY 213 Statistical Methods for Psychological Research
*3 (fi 6) (either term, 3-0-3). Application of statistical methods to psychological problems. Various experimental and non-experimental methods will be introduced. Topics include the scientific method, quantitative research designs, sampling and measuring techniques, biases in experimentation and ethical issues, measures of central tendency and variability, and tests of statistical hypothesis. Students will become familiar with the American Psychological Association (APA) standards of research and writing. Prerequisite: Mathematics 30-1 or 30-2. Note: Credit may be obtained for only one of AUPSY 213, AUSTA 153, 213, 215.

AUPSY 408 - History and Systems of Psychology
★ 3 (fi 6) (either term, 3-0-0) Survey of major theoretical approaches to psychology, especially in the last two centuries, emphasizing the historical antecedents and contemporary significance of each. Prerequisites: AUPSY 101 (2016), 102 (2016), or 103, and fourth year standing. Notes: Open only to a student with a major in Psychology. AUPSY 408 is classified as an arts course. Credit may be obtained for only one of AUPSY 408 or AUPSY 409.

AUPSY 409 - History and Systems of Psychology
★ 3 (fi 6) (either term, 3-0-0) Survey of major theoretical approaches to psychology, especially in the last two centuries, emphasizing the historical antecedents and contemporary significance of each. Prerequisites: One of AUPSY 101 (2016), 102 (2016), or 103, and fourth year standing. Notes: Open only to a student with a major in Psychology. AUPSY 408 is classified as an arts course. Credit may be obtained for only one of AUPSY 408 or AUPSY 409.
in the last two centuries, emphasizing the historical antecedents and contemporary significance of each. Prerequisites: AUPSY 101 (2016), 102 (2016), or 103, and fourth year standing. Notes: Open only to a student with a major in Psychology. AUPSY 409 is classified as a science course. Credit may be obtained for only one of AUPSY 408 or AUPSY 409.

| AUREL 260 - India Tour Orientation | ★ 3 (fi 6) (second term, 3-0-0) Examination of the intersection between religion and development in India. Students research and present on a particular topic relevant to the intersection of religion and development, as well as participate in team building exercises. Issues such as health and safety, travel preparations, dealing with culture shock, and the regional geography of India will be covered. Prerequisite: One of AUREL 100, 283, AUECO 101, consent of the Instructor. Notes: This is a prerequisite course for the India Tour (AUREL 266 or AUECO 254). Costs associated with the India Tour (3-weeks) and applicable tuition are the responsibility of the student. Enrolment is limited to 15 students. This course can only be taken by students who also register in AUREL 266 or AUECO 254. Credit may be obtained for only one of AUREL 260 or AUECO 252. |
| AUREL 266 - India Tour | ★ 3 (fi 6) (Spring/Summer, variable) Three-week study tour of India that focuses on a chosen region of India in order to examine the intersection between religious belief and practice and development challenges. Students will be exposed to various development projects as well as an array of religious sites. It is expected that students will gain an in depth understanding of India, its cultural and religious diversity, and the challenges it faces in the 21st century. Students will be exposed to both rural and urban life. Prerequisite: AUREL 260 or AUECO 252. Notes: Costs associated with this India Tour course and applicable tuition are the responsibility of the students. Enrolment is limited to 15 students. Credit may be obtained for only one of AUREL 260 or AUECO 252. Requires payment of additional student instructional support fees. Refer to the Fees Payment Guide in the University Regulations and Information for Students section of the Calendar. |

| AUSTA 153 Introductory Applied Statistics | *3 (fi 6) (either term, 3-0-1). Introduction to elementary statistical concepts designed to | AUSTA 153 Introductory Applied Statistics | *3 (fi 6) (either term, 3-0-1). Introduction to elementary statistical concepts designed to |
provide an understanding of how statistics can be used to analyze real world phenomena. Emphasis is on applications in the field of business and economics. The student is required to use spreadsheet and other statistical software to analyze and examine statistical data. Prerequisite: Mathematics 30-1 or 30-2. Notes: Credit may be obtained for only one of AUSTA 153, 213, 215, AUPSY 213.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Notes</th>
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<tbody>
<tr>
<td>AUSTA 213</td>
<td>Statistical Methods</td>
<td>*3 (fi 6)</td>
<td>(either term, 3-0-3). Frequency distributions, averages, dispersion,</td>
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<td></td>
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<td>simple linear regression and correlation, elementary probability,</td>
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<td>binomial and normal distributions, sampling distributions,</td>
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<td>confidence intervals, significance tests on means and variances,</td>
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<td>chi square tests for two way tables, introduction to the analysis of</td>
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<td>variance. Labs include projects in which a student collects and</td>
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<td>analyzes real data. Prerequisite: Mathematics 30-1 or 30-2. Notes:</td>
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<td>The course does not count toward the major in Mathematics and</td>
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<td>Physics or the minor in Mathematics. Credit may be obtained for only</td>
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<td>one of AUSTA 213, 153, 215, AUPSY 213.</td>
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<tr>
<td>AUSTA 215</td>
<td>Statistical Methods for the Natural Sciences</td>
<td>*3 (fi 6)</td>
<td>(either term, 3-0-0). Experimental design, data presentation and</td>
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<td>analysis; descriptive statistics, probability distributions and</td>
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<td>statistical hypothesis testing; parametric and non-parametric tests,</td>
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<td>correlation and regression; use of statistical software. Prerequisites:</td>
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<td>Mathematics 30-1 or 30-2; one of AUBIO 110, 130, AUCHE 110, AUCSC</td>
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<td></td>
<td>110, AUENV 120, AUGE 120, AUMAT 110, 111, 116, 120, AUPHY 102, 104,</td>
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<td>110. Notes: The course does not count toward the major in Mathematics</td>
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<td>and Physics or the minor in Mathematics. Credit may be obtained for</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>only one of AUSTA 153, 213, 215, AUPSY 213.</td>
</tr>
</tbody>
</table>
Augustana Faculty
Program and Course Changes
For Implementation in 2018-2019

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
</table>
| **Augustana Faculty**  
**Programs**  
**Bachelor of Arts (BA)**  
[Augustana] | **Augustana Faculty**  
**Programs**  
**Bachelor of Arts (BA)**  
[Augustana] |

{…no changes until…}

<table>
<thead>
<tr>
<th>Major in Environmental Science/Studies [Augustana]</th>
<th>Major in Environmental Science/Studies [Augustana]</th>
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<tbody>
<tr>
<td>A student may choose a BSc in Environmental Science or a BA in Environmental Studies. See Augustana Faculty for Admission Requirements.</td>
<td>A student may choose a BSc in Environmental Science or a BA in Environmental Studies. See Augustana Faculty for Admission Requirements.</td>
</tr>
</tbody>
</table>

**Requirements**

★12 in environmental studies
- AUENV 120 - Human Activities and the Natural Environment
- AUENV 324 - Resource and Environmental Management
- AUENV 341 - Environmental Economics
- AUENV 421 - Environmental Science: History and Impacts

★3 in ecology
- AUBIO 253 - Ecological Interactions

★3 in earth science
- AUGEO 230 - Geomorphology
- AUGEO 231 - Climatology

★6 in environmental perspectives
- AUENG 268 - Women and Environmental Literature
- AUENG 269 - The End of the World: Contemporary Apocalyptic Literature
- AUENG 327
- AUENG 368 - Women and Environmental Literature
- AUENG 369 - The End of the World: Contemporary Apocalyptic Literature
- AUENV 268 - Women and Environmental Literature
- AUENV 269 - The End of the World: Contemporary Apocalyptic Literature
Contemporary Apocalyptic Literature
- AUENV 327 - Environmental Education and Heritage Interpretation
- AUENV 328 - Environmental Politics
- AUENV 344 - Environmental Psychology
- AUENV 345 - Religion and Ecology
- AUENV 355 - Philosophy, Technology, and the Environment
- AUENV 358 - Environmental Sociology
- AUENV 368 - Women and Environmental Literature
- AUENV 369 - The End of the World: Contemporary Apocalyptic Literature
- AUENV 375 - Canadian Environmental History
- AUENV 458
- AUENV 475 - Canadian Environmental History
- AUHIS 375 - Canadian Environmental History
- AUHIS 475 - Canadian Environmental History
- AUPHI 355 - Philosophy and the Environment
- AUPOL 328 - Environmental Politics
- AUPSY 344 - Environmental Psychology
- AUREL 345 - Religion and Ecology
- AUSOC 358 - Environmental Sociology
- AUSOC 458
- Other selected topics courses on a case by case basis

AUENV 327 - Environmental Education and Heritage Interpretation
- AUENV 328 - Environmental Politics
- AUENV 344 - Environmental Psychology
- AUENV 345 - Religion and Ecology
- AUENV 355 - Philosophy, Technology, and the Environment
- AUENV 358 - Environmental Sociology
- AUENV 368 - Women and Environmental Literature
- AUENV 369 - The End of the World: Contemporary Apocalyptic Literature
- AUENV 375 - Canadian Environmental History
- AUENV 458
- AUENV 475 - Canadian Environmental History
- AUHIS 375 - Canadian Environmental History
- AUHIS 475 - Canadian Environmental History
- AUPHI 355 - Philosophy and the Environment
- AUPOL 328 - Environmental Politics
- AUPSY 344 - Environmental Psychology
- AUREL 345 - Religion and Ecology
- AUSOC 358 - Environmental Sociology
- AUSOC 458
- Other selected topics courses on a case by case basis

{…no further changes…}
Augustana Faculty Programs
Bachelor of Science (BSc)/Bachelor of Education (BEd) (Secondary) Combined Degrees Program (Augustana)

{…no changes until…}

Program Requirements
The Bachelor of Science (BSc)/Bachelor of Education (BEd) (Secondary) Combined Degrees Program (Augustana) consists of ★102 arts and science plus ★48 Education. The ★150 in the program are made up of core and general requirements, Education requirements, a major subject, a minor subject, and options, as follows:

Core Requirements (★36) [Augustana]

Part A: The Augustana Core: Engagement (★15)
- ★15 from at least three of the following five categories with no more than ★6 in any one category:
  - Integrating knowledge
  - Global studies
  - Environmental sustainability
  - Experiential learning
  - Creative and imaginative process

Part B: The Augustana Core: Engagement (★12)
- ★12 from at least three of the following five categories up to the maximum indicated:
  - Creative and imaginative process (maximum ★6)
  - Diversity and global studies (maximum ★6)
  - Environmental sustainability (maximum ★6)
  - Experiential learning (maximum ★6)
  - Integrating Knowledge (maximum ★3)

Courses that satisfy these requirements may overlap with the student’s major and minor and with prerequisites and supporting courses, but not

See Augustana Chart 1 Core Engagement Requirements [Education] for lists of courses that satisfy these requirements.
with the Augustana Core: Knowledge requirements in Part B.

Part B. The Augustana Core: Knowledge (★21)
- ★3 Fine Arts: any AUART except AUART 228; any AUDRA except AUDRA 228, AUDRA 301; any AUMUS except AUMUS 228, AUMUS 375, AUMUS 475.
- ★6 Humanities.
- ★6 Science.
- ★6 Social Sciences.

See Classification of Courses for the definition of humanities, science and social sciences courses.

Courses that satisfy these requirements may overlap with the general requirements, the student’s minor, prerequisites and supporting courses, but not with the Augustana Core: Engagement in Part A.

{…no further changes until…}
- AUBIO 253 - Ecological Interactions
- AUBIO 260 - Principles of Genetics

★3 botany:
- AUBIO 222

★3 biodiversity: one of
- AUBIO 274 - Microbiology
- AUBIO 294
- AUBIO 295

★3 developmental biology:
- AUBIO 338 - Developmental Biology

★3 history and theory of biology:
- AUBIO 411 - History and Theory of Biology

Prerequisite courses: ★6 chemistry:
- AUCHE 110 - General Chemistry I
- AUCHE 250 - Organic Chemistry I

Supporting course: ★3 statistics:
- AUSTA 215 - Statistical Methods for the Natural Sciences

Note:
Students must take EDSE 352 during the IPT, which is normally offered in both the Fall and Winter Terms. Students must take EDSE 451 and EDSE 452 during the APT, which are normally offered in both the Fall and Winter Terms.

{…no further changes until…}

General Sciences
- ★9 Physics, including at least ★3 at the 200-level.
- ★6 Biology, Chemistry, Mathematics, or Physics at the 300- or 400-level
- ★3 senior Biology, Chemistry, Mathematics, Physics, senior science courses in Environmental Studies or Geography (see Classification of Courses (1), or AUSTA 215.

- AUBIO 260 - Principles of Genetics

★3 botany:
- AUBIO 323 – Plant Biology

★3 biodiversity: one of
- AUBIO 274 - Microbiology
- AUBIO 394 – Comparative Invertebrate Zoology
- AUBIO 395 – Vertebrate Form and Function

★3 developmental biology:
- AUBIO 338 - Developmental Biology

★3 history and theory of biology:
- AUBIO 411 - History and Theory of Biology

Prerequisite courses: ★6 chemistry:
- AUCHE 110 - General Chemistry I
- AUCHE 250 - Organic Chemistry I

Supporting course: ★3 statistics:
- AUSTA 215 - Statistical Methods for the Natural Sciences

Note:
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General Sciences
- ★9 Physics, including at least ★3 at the 200-level.
- ★6 Biology, Chemistry, Mathematics, or Physics at the 300- or 400-level
- ★3 senior Biology, Chemistry, Mathematics, Physics, senior science courses in Environmental Studies or Geography (see Classification of Courses (1), or AUSTA 215.
★9 biology:
- AUBIO 110
- AUBIO 130
- ★3 Biology at the 200-level

★9 chemistry:
- AUCH 110 - General Chemistry I
- AUCH 112 - General Chemistry II
- AUCH 250 - Organic Chemistry I

★6 elementary calculus:
- AUMAT 110 - Elementary Calculus I
  OR
  AUMAT 111
  OR
  AUMAT 116 - Elementary Calculus I
  (Enriched)
- AUMAT 112 - Elementary Calculus II

Note:
Students must take EDSE 360 during the IPT, which is normally offered in both the Fall and Winter Terms. Students must take EDSE 451 and EDSE 456 during the APT, which are normally offered in both the Fall and Winter Terms.

{…no further changes…}

New

AUBIO 315 Advanced Biological Analysis
*3 (fi 6) (either term, 3-0-0)
Application of statistical and informatics methods for analysis of biological datasets (e.g., plant, bird and bat communities) using both univariate and multivariate techniques. Students will also develop critical skills in research design, organization and interpretation of data, and written and oral communication skills. Course also includes data collection during a short field trip. Prerequisites AUBIO 253 and AUSTA 215. Requires payment of additional instructional support fees. Refer to the Fees Payment Guide in the University Regulations and Information for Students section of the Calendar.

AUMAT 110 Elementary Calculus I
*3 (fi 6) (either term, 3-1.5s-0). Limits; differentiation and integration of algebraic, trigonometric, exponential, and logarithmic
functions; applications. Prerequisite: Mathematics 30-1. Notes: Credit may be obtained for only one of AUMAT 110, 111 and 116. Students with credit in Mathematics 31 who score 80% or more on the Calculus Placement Test should take AUMAT 116 instead of AUMAT 110. Students with unsatisfactory performance through the first four weeks of the course may be permitted to withdraw and register in the next offering of AUMAT 101.

AUMAT 260 **Topics in Geometry**  
*3 (fi 6) (either term, 3-0-0). Axiomatic systems and finite geometries; Euclidean geometry and modern synthetic geometry, including Euclid’s and Hilbert’s axioms, Menelaus’ and Ceva’s theorems, the nine-point circle, and Morley’s theorem; constructions; isometries of the plane and groups of transformations; non-Euclidean geometry; applications. Prerequisite: AUMAT 120 or consent of the instructor.

AUPSY 103 - **Introduction to Psychology**  
★ 3 (fi 6) (either term, 3-0-0) The course focuses on the basic principles underlying human behaviour. Topics include the central nervous system, cognition, development, social, and personality, and mental health. AUPSY 103 is classified as a science course.

AUPSY 103 - **Introduction to Psychology**  
★ 3 (fi 6) (either term, 3-0-0) The course focuses on the basic principles underlying human behaviour. Topics include the central nervous system, cognition, development, social, and personality, and mental health. AUPSY 103 is classified as a science course. Note: Credit may be obtained for only one of AUPSY 103 and either of AUPSY 101 (2016) or AUPSY 102 (2016).