

## Foundations

Brigham Young University-Idaho 2016-2017



Dear Students:

At BYU-Idaho we seek to provide an academic experience that will challenge you intellectually and prepare you for further study, employment, and the role you will fulfill in your families and communities.

To that end, the university offers a unique general education program called Foundations. As the name suggests, Foundations provides a strong basis for both your BYU-Idaho education and your lifelong learning pursuits.

In Foundations courses, you will delve deeply into five areas of study: Eternal Truths, Quantitative Reasoning, Writing, Science, and Cultural Awareness. Some courses are required, while others are open to your own preferences and interests. In both cases, you will be blessed and strengthened as you diligently participate in these courses.

In addition to introducing you to a variety of subjects, your Foundations experience will help you become familiar with the Learning Model—the established pattern for learning at BYU-Idaho. This student-centered learning approach will be a powerful resource to you throughout your education and life.

I invite you to carefully review the Foundations section of the catalog and determine which courses will be most beneficial to you. As you take responsibility for your learning and engage fully in the educational opportunities available, you will find your BYU-Idaho experience to be both meaningful and rewarding.

A handwritten signature in black ink, appearing to read "Clark G. Gilbert".

Clark G. Gilbert  
President, Brigham Young University-Idaho

# Foundations



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## Overview of Foundations

A BYU-Idaho education includes both the acquisition of marketable skills and a broad general education. BYU-Idaho graduates should not only be employable, but also literate, well rounded, cultured, and informed. They should be good thinkers and good communicators. They should be good citizens with strong testimonies. They should graduate with the passion and skills to make them lifelong learners.

In BYU-Idaho's Foundations program, students acquire life-changing skills and knowledge. Foundations courses provide breadth and depth. Students develop the ability to think critically, to read and write, to reason quantitatively and scientifically, and to collaborate. They also encounter big and meaty questions about today's world, and make connections between the course material and other aspects of their lives.

In their Foundations courses, students do not simply prepare for a job, but a vocation—a purpose and vision of how they can bring about a better world and the skills to help them do it. Foundations is an oasis of learning in a busy and distracted world. We invite students to pause and drink deeply from its waters.

## Foundations Requirements: Bachelor's Degree

As part of a bachelor's degree, students will complete 14 credits in Eternal Truths, 3 credits in Quantitative Reasoning, 6 credits in Writing, 8 credits in Science, and 9 credits in Cultural Awareness.

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**Eternal Truths:** Complete 14 credits of Religion at BYU-Idaho.

- FDREL 200, The Eternal Family (2 credits)
- FDREL 225, Foundations of the Restoration (2 credits)
- FDREL 250, Jesus Christ and the Everlasting Gospel (2 credits)
- FDREL 275, Teachings and Doctrine of the Book of Mormon (2 credits)
- Any 6 additional FDREL credits

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**Quantitative Reasoning:** Complete the following course.

- FDMAT 108, Mathematical Tools for the Real World (3 credits)

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**Writing:** Complete the following 2 courses.

- FDENG 101, Writing and Reasoning Foundations (3 credits)
- FDENG 301, Advanced Writing and Research (3 credits)

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**Science:** Complete 8 credits of Science.

- FDSCI 101, Science Foundations (2 credits)
- Take two 200-level FDSCI courses which must come from two of the following three categories: physical science, life science, and social science.  
 Note: FDSCI 206, Light and Sound, counts in more than one category.
- **Foundations Courses in Physical Science**
  - FDSCI 200, Energy in the 21st Century (3 credits)
  - FDSCI 201, Natural Disasters: Man and the Dynamic Earth (3 credits)
  - FDSCI 202, Issues in Global Climate Change (3 credits)
  - FDSCI 206, Light and Sound: The Science of Vision & Hearing (3 credits)
  - FDSCI 208, Introduction to Robotics (3 credits)
  - FDSCI 209, How to Build a Habitable Planet (3 credits)
  - FDSCI 299P, Topics in the Physical Sciences (3 credits)
- **Foundations Courses in Life Science**
  - FDSCI 203, Environmental Stewardship (3 credits)
  - FDSCI 204, The American Epidemic: Diabetes and Cardiovascular Disease (3 credits)
  - FDSCI 205, DNA: Genetic Identity, Disease, and Design (3 credits)
  - FDSCI 206, Light and Sound: The Science of Vision & Hearing (3 credits)
  - FDSCI 210, Neanderthals and Other Successes (3 credits)
  - FDSCI 299L, Topics in the Life Sciences (3 credits)
- **Foundations Courses in Social Science**
  - FDSCI 206, Light and Sound: The Science of Vision & Hearing (3 credits)
  - FDSCI 212, Inquiry and Innovation through Design Thinking (3 credits)
  - FDSCI 213, Issues in Social Science: Religious Freedom (3 credits)
  - FDSCI 299S, Topics in Social Science (3 credits)

**Cultural Awareness:** Complete 9 credits in the Cultural Awareness area.

- Take one of the following:
  - FDAMF 101, American Foundations (3 credits)
  - FDCIV 101, Foundations of Civil Society (3 credits)
- Take one of the following:
  - FDHUM 110, Foundations of Humanities (3 credits)
  - FDWLD 101, World Foundations I (3 credits)
- Take one of the following:
  - FDHUM 214, Modern Arts & Propaganda (3 credits)
  - FDHUM 299, Topics in Humanities (3 credits)
  - FDINT 211, Global Hotspot: Pakistan at the Crossroads of Conflict (3 credits)
  - FDINT 212, Latin American Focus: Chile and Cuba (3 credits)
  - FDINT 215, China (3 credits)
  - FDINT 299, Topics in International Issues (3 credits)
  - FDLIT 216, Great Books of the World (3 credits)
  - FDLIT 299, Topics in Literature (3 credits)
  - FDWLD 201, World Foundations II (3 credits)

**Foundations Requirements: Associate's Degree (A.A. or A.S.)**

For students pursuing an associate's degree, 34 credits of Foundations courses are required. The requirements are the same as those for a bachelor's degree, with one exception. Students pursuing an associate's degree only complete 8 credits in the Eternal Truths area: 4 Cornerstone credits (2 courses) from FDREL 200, FDREL 225, FDREL 250, or FDREL 275, plus four additional FDREL credits of their choice. The course requirements for the Quantitative Reasoning, Writing, Science, and Cultural Awareness areas are the same as those for a bachelor's degree.

**Foundations Requirements: Applied Associate's Degree (A.A.S.)**

An applied associate's degree does not transfer to other institutions. It is intended to be a terminal degree, leading to a profession. For an applied associate's degree, students complete a total of 17 credits in Foundations. Students take 8 credits in the Eternal Truths area: 4 Cornerstone credits (2 courses) from FDREL 200, FDREL 225, FDREL 250, or FDREL 275, plus four additional FDREL credits of their choice. Additionally, students take the FDENG 101, FDENG 301, and FDMAT 108 courses in the Quantitative Reasoning and Writing areas.

**Recommended Sequence for Foundations Courses**

Students are encouraged to take one religion class each semester, until they have completed the required number of FDREL classes. After that, students are invited to enroll in an Institute of Religion class each semester. Most FDREL courses do not have prerequisites, so they can be taken in any order. For example, a student may take FDREL 275 before taking FDREL 225.

It is recommended that full-time students enroll in two Foundations courses their first semester. These courses might include FDENG 101, FDAMF 101, FDSCI 101, FDHUM 110, FDWLD 101 or FDMAT 108. The remainder of the schedule is used to explore a field of study.

Foundations enriches the educational experience at BYU-Idaho. Students should spread out their Foundations courses, rather than trying to get through them in a few semesters.

**Foundations Substitution Modules**

Some courses at BYU-Idaho have been approved as substitutions for Foundations courses. Students will typically opt to take the substitution courses if they are required as part of their major.

**Eternal Truths**

There are no substitution modules for Religion courses.

**Quantitative Reasoning**

To substitute for FDMAT 108 (3 credits), take one of the following:

- FDMAT 112, Calculus I (4 credits)
- MATH 119, Calculus for Business and Life Science (4 credits)
- ECON 215, Quantitative Methods (4 credits)

**Writing**

To substitute for FDENG 301 (3 credits), take one of the following:

- B 320, Advanced Writing in Professional Contexts (3 credits)
- HUM 305, Writing and Analysis in Humanities (3 credits)
- GEOL 316, Geowriting (3 credits)

**Science**

*Science Option A*

Three options exist for completing the Foundations Sciences requirements. Option A is the standard requirement for Foundations Science, listed in the "Foundations Requirements" section of this catalog.

*Science Option B*

This substitution is primarily for students majoring in the biological sciences.

Take the following course:

- FDSCI 101 (2 credits)

Take 4 credits:

- APS 122, Introduction to Plant Science (4 credits)
- AS 215, Animal Anatomy and Physiology (3 credits)
- AS 215L, Animal Anatomy and Physiology Lab (1 credit)
- BIO 180, Introduction to Biology I (4 credits)
- BIO 208, General Botany (4 credits)
- BIO 221, General Microbiology (3 credits)
- BIO 222L, General Microbiology Lab (1 credit)
- BIO 264, Human Anatomy and Physiology I (3 credits)
- BIO 264L, Human Anatomy and Physiology I Lab (1 credit)

Take 4 credits:

- APS 220, Introduction to Soils (3 credits)
- APS 220L, Introduction to Soils Lab (1 credit)
- CHEM 101, Introduction to General Chemistry (3 credits)
- CHEM 101L, Introduction to General Chemistry Lab (1 credit)
- CHEM 105, General Chemistry I (4 credits)
- HS 420, Health Behavior Theories and Models (2 credits)
- PSYCH 111, General Psychology (3 credits)
- SOC 111, Introduction to Sociology (3 credits)

## Foundations

Brigham Young University–Idaho 2016-2017

### Science Option C

This substitution is primarily for students majoring in physical sciences.

Take the following course:

- FDSCI 101 (2 credits)

Take 4 credits:

- CHEM 101, Introduction to General Chemistry (3 credits)
- CHEM 101L, Introduction to General Chemistry Lab (1 credit)
- CHEM 105, General Chemistry I (4 credits)

Take 4 credits:

- GEOL 111, Physical Geology (3 credits)
- ME 201, Engineering Mechanics: Statics (2 credits)
- PH 105, Introductory Applied Physics I (4 credits)
- PH 121, Principles of Physics I (3 credits)
- PH 123, Principles of Physics II (3 credits)
- PH 127, Introduction to Astronomy (3 credits)
- PH 150, Beginning Physics Lab (1 credit)
- PH 220, Principles of Physics III (3 credits)
- PH 223, Engineering Physics (4 credits)
- PH 250, Intermediate Physics Lab (1 credit)

### Cultural Awareness

#### Cultural Awareness Option A

Several options exist for completing the Foundations Cultural Awareness requirements. Option A is the standard requirement, listed in the “Foundations Requirements” section of this catalog.

#### Cultural Awareness Option B

This substitution is primarily for students majoring in Humanities.

Take one of the following courses (3 credits):

- FDAMF 101, American Foundations (3 credits)
- FDCIV 101, Foundations of Civil Society (3 credits)

Take the following two courses (6 credits):

- HUM 201, The Arts in Western Culture: Pre-Historic to Renaissance (3 credits)
- HUM 202, The Arts in Western Culture: Renaissance to Modern (3 credits)

Take one of the following courses (3 credits):

- FDHUM 214, Modern Arts & Propaganda (3 credits)
- FDHUM 299, Topics in Humanities (3 credits)
- FDINT 211, Global Hotspot: Pakistan at the Crossroads of Conflict (3 credits)
- FDINT 212, Latin American Focus: Chile and Cuba (3 credits)
- FDINT 215, China (3 credits)
- FDINT 299, Topics in International Issues (3 credits)
- FDLIT 216, Great Books of the World (3 credits)
- FDLIT 299, Topics in Literature (3 credits)
- FDWLD 201, World Foundations II (3 credits)
- HUM 342, Humanities of the Islamic World (3 credits)

#### Cultural Awareness Option C

This substitution is primarily for students majoring in music.

Take one of the following courses (3 credits):

- FDAMF 101, American Foundations (3 credits)
- FDCIV 101, Foundations of Civil Society (3 credits)

Take the following four courses (8 credits):

- MUSIC 102, Music in Western Civilization (2 credits)
- MUSIC 301, Music Literature I – Middle Ages (2 credits)
- MUSIC 302, Music Literature II – Classic and Romantic (2 credits)
- MUSIC 303, Music Literature III – 20th Century/World (2 credits)

#### Cultural Awareness Option D

This substitution is for students who attend BYU Jerusalem Center.

Take these BYU Jerusalem Center courses (which are then transferred to BYU-Idaho):

- NES 336, Ancient Near Eastern Studies (3 credits)
- NES 347, Arab and Islamic Civilization (2 credits)
- NES 349, Israeli and Jewish Civilization (2 credits)

## Foundations Requirements - Applied Associate's Degree

Eternal Truths 8 Credits			Academic Fundamentals 9 Credits	
<b>Cornerstone Courses</b> <i>Take 2 courses:</i> FDREL 200            2 FDREL 225            2 FDREL 250            2 FDREL 275            2  AND  <b>Other Religion Courses</b> <i>Take 4 additional credits:</i> FDREL 100            2 FDREL 121            2 FDREL 122            2 FDREL 130            2 <i>cont. in next column</i>	<i>cont. from previous column</i> FDREL 190            1-3 FDREL 200            2 FDREL 211            2 FDREL 212            2 FDREL 215            2 FDREL 225            2 FDREL 234            2 FDREL 235            2 FDREL 250            2 FDREL 261            2 FDREL 275            2 FDREL 301            2 FDREL 302            2 FDREL 324            2  <i>cont. in next column</i>	<i>cont. from previous column</i> FDREL 325            2 FDREL 327            2 FDREL 333            2 FDREL 341            2 FDREL 342            2 FDREL 343            2 FDREL 345            2 FDREL 351            2 FDREL 352            2 FDREL 390R            1-2 FDREL 397            2 FDREL 404            2 FDREL 431            2 FDREL 471            2 FDREL 475            2	<b>Reading, Writing, &amp; Critical Thinking</b> <i>Take this course:</i> FDENG 101            3  AND  <b>Advanced Research Writing</b> <i>Take either:</i> FDENG 301            3 OR <i>Take 1 course from the following list:</i> GEOL 316            3 B 320                    3 HUM 305                3	<b>Quantitative Reasoning</b> <i>Take either:</i> FDMAT 108            3 OR <i>Take 1 course from the following list:</i> FDMAT 112            4 MATH 119            4 ECON 215             4
<b>Foundations Requirements - 17 Credits</b>				

## Foundations

Brigham Young University-Idaho 2016-2017

Foundations Requirements - Associate's Degree					
Eternal Truths 8 Credits		Academic Fundamentals 9 Credits		Science 8 Credits	Cultural Awareness 9 Credits
<b>Cornerstone Courses</b> <i>Take 2 courses:</i> FDREL 200           2 FDREL 225           2 FDREL 250           2 FDREL 275           2 AND <b>Other Religion Courses</b> <i>Take 4 additional credits:</i> FDREL 100           2 FDREL 121           2 FDREL 122           2 FDREL 130           2 FDREL 190           1-3 FDREL 200           2 FDREL 211           2 FDREL 212           2 FDREL 215           2 FDREL 225           2 FDREL 234           2 FDREL 235           2 FDREL 250           2 FDREL 261           2 FDREL 275           2 FDREL 301           2 FDREL 302           2 FDREL 324           2 FDREL 325           2 FDREL 327           2 FDREL 333           2 <i>cont. in next column</i>	<i>cont. from previous column</i> FDREL 341           2 FDREL 342           2 FDREL 343           2 FDREL 345           2 FDREL 351           2 FDREL 352           2 FDREL 390R          1-2 FDREL 397           2 FDREL 404           2 FDREL 431           2 FDREL 471           2 FDREL 475           2	<b>Reading, Writing, &amp; Critical Thinking</b> <i>Take this course:</i> FDENG 101           3 AND <b>Advanced Research Writing</b> <i>Take either:</i> FDENG 301           3 OR <i>Take 1 course from the following list:</i> GEOL 316           3 B 320                3 HUM 305            3 AND <b>Quantitative Reasoning</b> <i>Take either:</i> FDMAT 108          3 OR <i>Take 1 course from the following list:</i> FDMAT 112          4 MATH 119           4 ECON 215            4	<b>Science Foundations</b> <i>Take this course:</i> FDSCI 101           2 AND <b>Issues in the Sciences</b> <i>Take 2 courses representing 2 of the following areas in science:</i> Physical Science FDSCI 200           3 FDSCI 201           3 FDSCI 202           3 FDSCI 206           3 FDSCI 208           3 FDSCI 209           3 FDSCI 299P          3 Life Science FDSCI 203           3 FDSCI 204           3 FDSCI 205           3 FDSCI 206           3 FDSCI 210           3 FDSCI 299L          3 Social Science FDSCI 206           3 FDSCI 212           3 FDSCI 213           3 FDSCI 299S          3	<b>American Foundations</b> <i>Take 1 course:</i> FDAMF 101           3 FDCIV 101           3 AND <b>Humanities, International, Literature &amp; World</b> <i>Take 1 course:</i> FDHUM 110          3 FDWLD 101          3 AND <i>Take 1 course:</i> FDHUM 214          3 FDHUM 299          3 FDINT 211          3 FDINT 212          3 FDINT 215          3 FDINT 299          3 FDLIT 216          3 FDLIT 299          3 FDWLD 201          3	
Foundations Requirements - 34 Credits					

Foundations Requirements - Bachelor's Degree					
Eternal Truths 14 Credits		Academic Fundamentals 9 Credits		Science 8 Credits	Cultural Awareness 9 Credits
<b>Cornerstone Courses</b> <i>Take these courses:</i> FDREL 200           2 FDREL 225           2 FDREL 250           2 FDREL 275           2 AND	<b>Other Religion Courses</b> <i>Take 6 credits:</i> FDREL 100           2 FDREL 121           2 FDREL 122           2 FDREL 130           2 FDREL 190           1-3 FDREL 211           2 FDREL 212           2 FDREL 215           2 FDREL 234           2 FDREL 235           2 FDREL 261           2 FDREL 301           2 FDREL 302           2 FDREL 324           2 FDREL 325           2 FDREL 327           2 FDREL 333           2 FDREL 341           2 FDREL 342           2 FDREL 343           2 FDREL 345           2 FDREL 351           2 FDREL 352           2 FDREL 390R          1-2 FDREL 397           2 FDREL 404           2 FDREL 431           2 FDREL 471           2 FDREL 475           2	<b>Reading, Writing, &amp; Critical Thinking</b> <i>Take this course:</i> FDENG 101           3 AND <b>Advanced Research Writing</b> <i>Take either:</i> FDENG 301           3 OR <i>Take 1 course from the following list:</i> GEOL 316           3 B 320                3 HUM 305            3 AND <b>Quantitative Reasoning</b> <i>Take either:</i> FDMAT 108          3 OR <i>Take 1 course from the following list:</i> FDMAT 112          4 MATH 119           4 ECON 215            4	<b>Science Foundations</b> <i>Take this course:</i> FDSCI 101           2 AND <b>Issues in the Sciences</b> <i>Take 2 courses representing 2 of the following areas in science:</i> Physical Science FDSCI 200           3 FDSCI 201           3 FDSCI 202           3 FDSCI 206           3 FDSCI 208           3 FDSCI 209           3 FDSCI 299P          3 Life Science FDSCI 203           3 FDSCI 204           3 FDSCI 205           3 FDSCI 206           3 FDSCI 210           3 FDSCI 299L          3 Social Science FDSCI 206           3 FDSCI 212           3 FDSCI 213           3 FDSCI 299S          3	<b>American Foundations</b> <i>Take 1 course:</i> FDAMF 101           3 FDCIV 101           3 AND <b>Humanities, International, Literature &amp; World</b> <i>Take 1 course:</i> FDHUM 110          3 FDWLD 101          3 AND <i>Take 1 course:</i> FDHUM 214          3 FDHUM 299          3 FDINT 211          3 FDINT 212          3 FDINT 215          3 FDINT 299          3 FDLIT 216          3 FDLIT 299          3 FDWLD 201          3	
Foundations Requirements - 40 Credits					

## Course Descriptions

## Credits\*

### Eternal Truths

#### Cornerstone Courses

##### FDREL 200 The Eternal Family

(2:2:0:0)

This course centers on "The Family: A Proclamation to the World" and develops gospel doctrines and principles pertaining to a successful and happy marriage and family life. Practical skills required to achieve and sustain provident living will also be explored and practiced.  
(Fall, Winter, Spring)

##### FDREL 225 Foundations of the Restoration

(2:2:0:0)

In this course students will study key revelations, doctrine, people, and events related to the Restoration of the Church of Jesus Christ. As they do so, they will build upon their previous sequential and topical gospel study experiences. This course will provide the doctrinal foundation and historical context needed to gain an accurate understanding of Church doctrine and history. Students will study the scriptures, doctrine, and Church history in ways that relate to their lives and circumstances.  
(Fall, Winter, Spring)

##### FDREL 250 Jesus Christ and the Everlasting Gospel

(2:2:0:0)

This course focuses on the eternal ministry of Jesus Christ and His divine roles and teachings throughout His premortal, mortal, and postmortal life. Special emphasis is given to the Savior's central role in Heavenly Father's plan for His children. Students are invited to deepen their love for and testimony of Jesus Christ and to become more devoted disciples. This course builds upon students' previous sequential and topical gospel study experiences and is taught using blocks of scripture in context from across the standard works as well as the teachings of modern prophets.  
(Fall, Winter, Spring)

##### FDREL 275 The Teachings and Doctrine of the Book of Mormon

(2:2:0:0)

This course focuses on doctrine and themes found throughout the writings, teachings, and sermons of the Book of Mormon. Emphasis is given to prophetic witnesses of Heavenly Father and His Son, Jesus Christ. This course builds upon students' previous sequential and topical gospel study experiences.  
(Fall, Winter, Spring)

Note: Religion courses can be taken in any order. Students are *not* required to begin with the Cornerstone, or other 200-level courses, and move through course options sequentially.

### Additional Religion Courses

For elective religion courses, please see the Religion Education section of this catalog.

### Quantitative Reasoning

##### FDMAT 108 Mathematical Tools for the Real World

(3:3:0:0)

Prerequisites: (ACT Math score of at least 18) or (SAT math score of at least 430) or (ALEKS test score of at least 38) or (MATH 100B with a grade of C or higher) or (MATH 100G, MATH 100L, or MATH 101 with a grade of B or higher)

This class prepares students to understand, analyze, and solve real-life problems that require quantitative reasoning. Topics include the meaning of probabilities, how to read, critique, and apply statistical information found in news reports, public policy debates, consumer reports, and other daily life and professional situations; the use of mathematical models in describing, understanding, and making predictions about real world phenomena; and the mathematics of loans and investments. Topics will be illustrated by examples and applications from current events, daily life, business, and natural phenomena. Mathematical Tools for the Real World is to inspire students to act wisely when faced with quantitative challenges in collegiate coursework, employment, and daily living.  
(Fall, Winter, Spring)

## Writing

##### FDENG 101 Writing and Reasoning Foundations

(3:3:0:0)

Prerequisites: (ACT English score of at least 16) or (SAT English score of at least 400) or (ENG 106 with a grade of C or higher) or (ENG 106L or ENG 109 with a grade of B or higher)

An introduction to academic inquiry and writing, laying the foundation for further academic and professional development. Students will learn to think and read critically and practice the writing process, including invention, research, summary, synthesis and analysis, revision, and editing. Students will work on several major writing assignments, including a research project in which they will gather information from a range of valid sources, demonstrating they can analyze and use that information purposefully, following appropriate documentation.  
(Fall, Winter, Spring)

##### FDENG 301 Advanced Writing and Research

(3:3:0:0)

Prerequisite: FDENG 101

Course Requirement: 22 Credits

Help students learn how to reason carefully and express ideas clearly. Students develop these competencies as they learn to recognize strong arguments, uncover assumptions, evaluate evidence, recognize rhetorical patterns, and infer ideas from data. To apply their understanding of these skills, students write summaries, essays synthesizing ideas from diverse sources, critiques of arguments, and research papers that focus on issues relevant to their majors.  
(Fall, Winter, Spring)

## Science

##### FDSCI 101 Science Foundations

(2:2:0:0)

An introduction to the nature, practice, power, and limitations of science, as well as relationships between science and religion, and science and society. These topics are explored through the study of selected episodes of scientific discovery that demonstrate methodical and creative aspects of scientific inquiry, and the self-correcting nature of science.  
(Fall, Winter, Spring)

##### FDSCI 200 Energy in the 21st Century

(3:3:0:0)

Prerequisite: FDSCI 101 and (FDMAT 108 or FDMAT 112 or ECON 215)

This course provides an introduction to the sciences and the issues related to energy production and use. It also explores alternatives to current energy technology.  
(Fall, Winter, Spring)

##### FDSCI 201 Natural Disasters: Man and the Dynamic Earth

(3:3:0:0)

Total Course Fee: \$18.00

Prerequisite: FDSCI 101

Examine the causes and consequences of natural hazards including earthquakes, volcanoes, landslides, floods, and coastal hazards. Students work in a team environment and examine case studies of ancient and modern events, emphasizing effects on science, engineering, history, economics, politics, and the arts. Study lessons learned from past events and determine what is being done or should be done to mitigate future disasters. Class includes a field trip.  
(Fall, Winter, Spring)

##### FDSCI 202 Issues in Global Climate Change

(3:3:0:0)

Prerequisite: FDSCI 101 and FDENG 101

This course provides an introduction to the issues involved in global climate change with an emphasis on understanding the science of global warming and greenhouse gases.  
(Fall, Winter, Spring)

##### FDSCI 203 Environmental Stewardship

(3:3:0:0)

Prerequisite: FDSCI 101

As individuals, it is often difficult to see or understand the consequences our decisions, actions, or existence may have on our environment and those around us. The purpose of this class is to show the effects each of us has as a member of a worldwide population of over seven billion, and the effects our population has on a local, regional, and global scale. The focus will be on how individually and collectively we impact the quality of our environment and human living conditions for both good and bad. Case studies will be used to examine an array of ecological, biological, agricultural, technological, economical, social, political and other issues associated with a burgeoning human population. Class members will receive a foundation whereby they can make informed choices about their life, family, and community, and be better stewards of Earth's resources.  
(Fall, Winter, Spring)

## Foundations

Brigham Young University–Idaho 2016-2017

### **FDSCI 204 The American Epidemic: Diabetes and Cardiovas. Disease (3:3:0:0)**

Prerequisite: FDSCI 101 and FDENG 101

Cardiovascular disease and Diabetes are leading causes of death and morbidity in the U.S. Both of these diseases are highly correlated with lifestyle choices. In this course students will study the physiologic mechanisms associated with these diseases as well as how lifestyle choices influence the diseases. Students will be expected to develop and implement personal programs to facilitate life-long health and wellness.  
(Fall, Winter, Spring)

### **FDSCI 205 DNA: Genetic Identity, Disease, and Design (3:3:0:0)**

Prerequisite: FDSCI 101 and (FDMAT 108 or FDMAT 112 or ECON 215)

The structure of DNA stands as one of the greatest discoveries of the 20th century and has led to multi-billion dollar advancements in medicine and agriculture. An understanding of DNA and its applications is necessary to distinguish fact from fiction, make informed decisions, and take full advantage of emerging DNA technologies. This course presents the fundamental concepts related to DNA including its history, structure, function, regulation, and inheritance. The remaining course material explores multiple issues and topics that are founded in DNA technology. These include the causes and treatments associated with genetic disorders, the creation of genetically modified foods, identification through DNA fingerprinting, tracing of family lineages, the applications and ethics of cloning and stem cell technology, and the underlying mechanism of organic evolution. Course methods include lecture, discussion, and hands-on exercises related to the subject material.  
(Fall, Winter, Spring)

### **FDSCI 206 Light & Sound: The Science of Vision & Hearing (3:3:0:0)**

Prerequisite: FDSCI 101 and FDENG 101

This course covers the physical characteristics of light and sound, the biological nature of eyes and ears, and the sensation of vision and hearing through our brain's perceptual abilities. Students will evaluate the influence of music, movies, advertising, and video games on the human mind and behavior.  
(Fall, Winter, Spring)

### **FDSCI 208 Introduction to Robotics (3:3:0:0)**

This course provides a hands-on approach to the fundamentals of robotics, including how robots sense, move, and make decisions. Students will build and configure robots to solve basic real-world problems and analyze their performance. The class will also explore ethical and environmental issues related to robotics.  
(Fall, Winter, Spring)

### **FDSCI 209 How to Build a Habitable Planet (3:3:0:0)**

Prerequisite: FDSCI 101 and (FDMAT 108 or FDMAT 112 or ECON 215)

We live on the only inhabited planet we've discovered so far. Through modern science, we have learned much about what makes a planet habitable and how one might be created. It was not a trivial undertaking! This course explores (a) the origin of the atoms from which planets and life are made; (b) the origin and structure of the universe, galaxies, stars, our solar system, and Earth; (c) the origin and function of Earth's atmosphere, oceans, and continents; and (d) how has Earth maintained habitability through time. In addition, the course will strengthen our ability to form and defend interpretations based on observations.  
(Fall, Winter, Spring)

### **FDSCI 210 Neanderthals and Other Successes (3:3:0:0)**

Prerequisite: FDSCI 101

Ours is a planet of life. Evidence from fossils and molecules suggests that organisms have thrived on Earth for billions of years. However, less than one percent of the species that have ever existed on our planet are still alive today. What caused some species to succeed while others failed, and how did life on Earth begin in the first place? From the earliest bacteria to humans and their civilizations, this course addresses the origins, evolution, and extinction of life on earth based on evidence from chemistry, biology, geology, and related sciences.  
(Fall, Winter, Spring)

### **FDSCI 212 Inquiry and Innovation through Design Thinking (3:3:0:0)**

Prerequisite: FDSCI 101

Design Thinking is a structured and repeatable social science method for developing human-centered innovative solutions in business, society, and product development. Designing actionable questions using the "5 Whys" and "How might we" group-questioning techniques will be emphasized. Qualitative and quantitative scientific research tools will be used to challenge the students' assumptions and help them fit various solutions to the problem context. Learning outcomes will be achieved through hands-on collaborative research projects. Training in co-creation, group dynamics, creative confidence and intelligent failure will be offered. Successful achievement in this course is dependent on in-person group discussion (no discussion boards), self-reflection, and increased levels of mastery in the Design Thinking mindsets.  
(Fall, Winter, Spring)

### **FDSCI 213 Issues in Social Science: Religious Freedom (3:3:0:0)**

Prerequisite: FDSCI 101

Religious freedom is recognized as a universal human right, but religious believers across the world continue to experience restrictions on that right. What is religious freedom—what does it mean in theory, law, practice, and social scientific inquiry? How is it related to other rights and freedoms? Why does it matter for thriving societies? What are the demonstrable causes and consequences of restricting it? What can be done to preserve or advance it when threatened? This course helps students explore and apply answers to these questions.  
(Fall, Winter, Spring)

### **FDSCI 299L Topics in Life Science (3:3:0:0)**

Prerequisite: FDSCI 101

Special Topics in Science Foundations. Students will study a topic dealing with a scientific issue in the life sciences. The topic is determined by a faculty team and approved by the Foundations office. This course counts toward the 200-level Foundations Science requirement.  
(Fall, Winter, Spring)

### **FDSCI 299P Topics in Physical Science (3:3:0:0)**

Prerequisite: FDSCI 101

Special Topics in Science Foundations. Students will study a topic dealing with a scientific issue in the physical sciences. The topic is determined by a faculty team and approved by the Foundations office. This course counts toward the 200-level Foundations Science requirement.  
(Fall, Winter, Spring)

### **FDSCI 299S Topics in Social Science (3:3:0:0)**

Prerequisite: FDSCI 101

Special Topics in Science Foundations. Students will study a topic dealing with a scientific issue in the social sciences. The topic is determined by a faculty team and approved by the Foundations office. This course counts toward the 200-level Foundations Science requirement.  
(Fall, Winter, Spring)

## Cultural Awareness

### **FDAMF 101 American Foundations (3:3:0:0)**

The history of the United States holds lessons for people everywhere. This course examines the full range of American history with the goal of better understanding the political, economic, and cultural ideals and institutions that explain the successes and limitations of the United States. This course also has interdisciplinary elements and draws deeply from political science, cultural studies, and economics to illuminate the American past.  
(Fall, Winter, Spring)

### **FDCIV 101 Foundations of Civil Society (3:3:0:0)**

The purpose of this course is to explore, understand, and analyze some of the key principles, tensions, and values that are fundamental to almost every society, and learn how to engage in productive problem solving as citizens. The future of any free, just, and prosperous society depends on an intelligent, competent, civil, fair, and public-spirited citizenry. Consequently, this class is designed to enhance your capacity for rational thought and informed action—rather than simply test your ability to memorized facts—so that you will be able to more constructively engage in building your local, national, and global communities.  
(Fall, Winter, Spring)

## Foundations

Brigham Young University-Idaho 2016-2017

### **FDHUM 110 Foundations of Humanities**

**(3:3:0:0)**

Introduction to the Humanities. Students will examine key works in the arts from Renaissance through the early 20th Century, their historical and cultural context, and the artistic principles that contribute to their significance. Students will then apply these principles in their own creative work, and in making value assessments about the arts.

(Fall, Winter, Spring)

### **FDHUM 214 Modern Arts & Propaganda**

**(3:3:0:0)**

This course will focus on the use of propaganda, art, and other forms of persuasion starting with the Modern Era (approximately post-1860) and continuing to the present. Students will experience this topic through various social issues and cultural influences from around the world, including the visual, performing, and literary arts. This course emphasizes the development of aesthetic judgment and critical thinking.

Note: This course has been taught in the past under the FDCA 204 and FDHUM 103 rubrics. If a student has taken either of these courses, he or she will not fulfill any Foundations requirements by also taking FDHUM 214.

(Fall, Winter, Spring)

### **FDHUM 299 Topics in Humanities**

**(3:3:0:0)**

Special topics in the humanities. Fulfills the BYU-Idaho Foundations requirement for a 200-level Cultural Awareness course.

(Fall, Winter, Spring)

### **FDINT 211 Global Hotspot: Pakistan at the Crossroads of Conflict**

**(3:3:0:0)**

Few countries in the world are more strategically critical yet less understood than Pakistan. This young country in an ancient land lies at the crossroads of history, religion, language, and culture. On the front-line in the war against terror, this nuclear power is in the midst of political turmoil whose outcome will have great implications for the rest of the world.

(Fall, Winter, Spring)

### **FDINT 212 Latin American Focus: Chile and Cuba**

**(3:3:0:0)**

Although they share many features, Chile and Cuba present economic, linguistic, and political differences as stark as the geographic and demographic contrasts between the two countries. In this course, students will compare and contrast while considering these countries' roles in the larger context of Latin America.

(Fall, Winter, Spring)

### **FDINT 215 China**

**(3:3:0:0)**

The rise of China as a major player on the international stage over the past few decades has been breathtaking. This interdisciplinary course introduces students to some of the key challenges which face China today through the study and analysis of topics such as population, politics, geography, economics, culture and the environment.

(Fall, Winter, Spring)

### **FDINT 299 Topics in International Issues**

**(3:3:0:0)**

Special topics in international issues. Fulfills the BYU-Idaho Foundations requirement for a 200-level Cultural Awareness course.

(Fall, Winter, Spring)

### **FDLIT 216 Great Books of the World**

**(3:3:0:0)**

Prerequisite: FDENG 101

A study of great books from ancient times to the early 20th Century. A deep reading of literary masterpieces in a variety of cultural, aesthetic, and historical contexts.

(Fall, Winter, Spring)

### **FDLIT 299 Topics in Literature**

**(3:3:0:0)**

Special topics in literature. Fulfills the BYU-Idaho Foundations requirement for a 200-level Cultural Awareness course.

(Fall, Winter, Spring)

### **FDWLD 101 World Foundations I**

**(3:3:0:0)**

World Foundations 101 is the first half of a two-course sequence that examines great world civilizations through literature, art, music, philosophy, and history. Two aspects of this course sequence give it power. First, the integration of disciplines-- literature, art, architecture, history, religion, philosophy, music and politics--in our study of various civilizations should produce a rich appreciation for the immense potential of the human spirit. Second, the use of two themes--redemption and moral revelation--throughout the two courses will provide a point of view that can help you, the student, make connections between the cultures, civilizations, and periods of time that we study and explore how God strives with his children to help them reach their potential.

Note: students are not obligated to take FDWLD 201 after taking FDWLD 101 in order to complete their Foundations Cultural Awareness requirements. Other 200-level Cultural Awareness courses may be taken to complete this requirement.

(Fall, Winter, Spring)

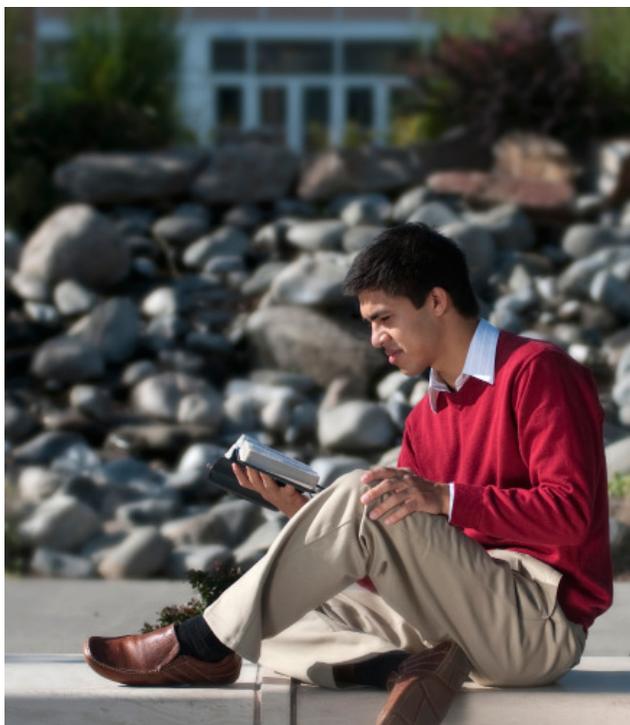
### **FDWLD 201 World Foundations II**

**(3:3:0:0)**

World Foundations II is the second half of a two-course sequence that examines great world civilizations through literature, art, music, philosophy, and history.

Note: it is recommended that students take FDWLD 101 before taking this course, but it is not required.

(Fall, Winter, Spring)



## Foundations

Brigham Young University–Idaho 2016-2017

### Transfer

#### Transfer of Religion Credit from Other Universities

Religion credit earned at other LDS Church schools will transfer to BYU-Idaho as an equivalent religion course or elective credit so long as the course is taken for credit and such credit is noted on an official transcript. While religion credits from other LDS Church schools may transfer to fulfill required religion content, they do not satisfy the BYU-Idaho resident religion requirement (religion courses taken from BYU-Idaho). Coursework in religious studies from any institution other than an LDS Church school or Institute of Religion will not be accepted toward fulfilling the BYU-Idaho religion requirements.

#### Transfer of Religion credit from CES Institutes of Religion

Religion credit earned at Church Education System (CES) Institutes of Religion will transfer to BYU-Idaho as an equivalent religion course or elective credit so long as the course is taken for “Church University” or “BYU” credit and such credit is noted on

an official Institute transcript. Qualifying Religion credit taken from CES Institutes of Religion will fulfill both the BYU-Idaho content and resident religion requirement. This policy is primarily designed to benefit BYU-Idaho students who are participating in the online degree programs. Students who are attending BYU-Idaho on-campus are strongly encouraged to register for religion courses offered through BYU-Idaho.

#### Transfer of Credit from BYU Jerusalem Center

All courses taken at BYU Jerusalem Center (during a student’s BYU-Idaho experience) will transfer to BYU-Idaho and calculate into the student’s BYU-Idaho GPA. Religion courses taken at BYU Jerusalem Center (during a student’s BYU-Idaho experience) will transfer to fulfill both religion course content and the resident religion requirement. However, such credit does not apply to the completion of the overall BYU-Idaho residency requirement. BYU Jerusalem Center credits earned prior to a student’s enrollment at BYU-Idaho can be used to fulfill religion course content only, but may not be applied to any BYU-Idaho residency requirement.

### Religion Credit Policy for Transfer Students and Expedited Degree-Seeking Students

Students must complete the required cornerstone courses listed in the table below. In addition, students must take additional FDREL courses to complete the minimum number of required FDREL credits at BYU-Idaho.

Students who have previously taken both FDREL 121 and FDREL 122 will not be required to take FDREL 275.

#### Bachelor’s Degree-seeking Students

The number of Religion credits required for a bachelor’s degree is adjusted for students who bring transfer credits to BYU-Idaho:

Total Number of Transfer Credits	Minimum FDREL Credits taken from BYU-Idaho	Minimum Required FDREL Courses
0-14.9	14	FDREL 200, FDREL 225, FDREL 250, FDREL 275, and 6 additional FDREL credits
15-29.9	12	FDREL 200, FDREL 225, FDREL 250, FDREL 275, and 4 additional FDREL credits
30-44.9	10	FDREL 200, FDREL 225, FDREL 250, FDREL 275, and 2 additional FDREL credits
45-59.9	8	FDREL 200, FDREL 225, FDREL 250, and FDREL 275
60-74.9	6-8	FDREL 200, FDREL 225, FDREL 250, and FDREL 275
75-89.9	4-8	FDREL 200, FDREL 225, FDREL 250, and FDREL 275
90 or more	2-8	FDREL 200, FDREL 225, FDREL 250, and FDREL 275

#### Associate’s Degree-seeking Students

The number of Religion credits required for an associate’s degree or an applied associate’s degree is adjusted for students who bring transfer credits to BYU-Idaho.

Total Number of Transfer Credits	Minimum FDREL Credits taken from BYU-Idaho	Minimum Required FDREL Courses
0-14.9	8	2 of (FDREL 200, FDREL 225, FDREL 250, FDREL 275) and 4 other FDREL credits
15-29.9	6	2 of (FDREL 200, FDREL 225, FDREL 250, FDREL 275) and 2 other FDREL credits
30 or more	4	2 of (FDREL 200, FDREL 225, FDREL 250, FDREL 275)

#### Expedited Degree-seeking Students (3+2, 3+3, or other 3+ programs)

The number of Religion credits required for students completing expedited degrees in conjunction with a graduate program at another university is adjusted according to the following table. For more information, email [interuniversityrelations@byui.edu](mailto:interuniversityrelations@byui.edu).

Number of credits earned at BYU-Idaho before entering expedited program	Minimum FDREL Credits taken from BYU-Idaho	Minimum Required FDREL Courses
90	10	FDREL 200, FDREL 225, FDREL 250, FDREL 275, and 2 additional FDREL credits
90.1-105	12	FDREL 200, FDREL 225, FDREL 250, FDREL 275, and 4 additional FDREL credits
105.1-120	14	FDREL 200, FDREL 225, FDREL 250, FDREL 275, and 6 additional FDREL credits