

# BYU-Idaho Academic Catalog

Program Type ▾

**Department of Accounting** ▾

**Department of Animal and Food Science** ▾

**Department of Applied Plant Science** ▾

**Department of Art** ▾





**Department of Business Management**



**Department of Chemistry and Biochemistry**



**Department of Communication**



**Department of Computer Science and Engineering**



**Department of Design and Construction Management**



**Department of Economics**



**Department of Elementary, Early, and Special Education**





**Department of English**



**Department of Finance**



**Department of Geology and Environmental Science**



**Department of Health Services**



**Department of History, Geography and Political Science**



**Department of Home and Family**





**Department of Humanities and Philosophy**



**Department of Languages and International Studies**



**Department of Marketing**



**Department of Mathematics**



**Department of Mechanical and Civil Engineering**



**Department of Military Science**



**Department of Music**





**Department of Physics**



**Department of Psychology**



**Department of Sociology and Social Work**



**Department of Theatre and Dance**



**Office of General Education**



**Office of Interdisciplinary Studies**





# BYU-Idaho Academic Catalog

## Floral Design (Major: Associate-Level)

### Program Description



An Associate of Applied Science Degree in Floral Design. Students prepare for careers in the floral industry and entrepreneurial ventures.

### Program Code

373

### Program Learning Outcomes (PLOs)

1. Identify over 100 popular Cut Flowers in the floral industry.
2. Identify and demonstrate proper care of Interior Plants.
3. Produce quality floral arrangements using the elements and principles of design.
4. Demonstrate proper care and handling of cut flowers.
5. Demonstrate correct pricing for retail floral including weddings, funerals and everyday design.

### Program Notes



- To graduate with an associate degree, a student must earn:
  - grades of C- or higher in major courses



Program Course Requirements ^**General Education****18**Total Credits ^

- Take at least 18 credit(s) to complete one of the following program(s): [GE - AAS](#)

**Core****4**Total Credits ^

- Complete all of the following
  - Take the following:
    - [APS299R](#) - Seminar (1)
    - [HORT224](#) - Introductory Plant Identification (2)
  - AND
  - Take 1 credit(s) from:
    - [APS398R](#) - Internship (1 - 5)

**Component(s)****12**Total Credits ^

Floral Design Certificate

- Take at least 12 credit(s) to complete one of the following program(s): [C146](#)

**Elective Major Credits****26**Total Credits ^

- Take 26 credit(s) from:
  - [APS103](#) - Home Gardening (3)
  - [APS122](#) - Introduction to Plant Science (3)
  - [APS123](#) - Introduction to Plant Science Laboratory (1)
  - [APS220](#) - Horticultural Soils (3)
  - [APS220L](#) - Soils Lab (1)
  - [APS250](#) - Agriculture Leadership and Management (3)
  - [APS290R](#) - Special Problems (1 - 3)
  - [ART107](#) - Design and Color (3)
  - [BUS200](#) - Small Business Management (3)
  - [BUS210](#) - Small Business Creation (3)
  - [BUS310](#) - Launching New Ventures (3)
  - [HORT230](#) - Introduction to Landscape Architecture and Design (3)
  - [HORT277R](#) - Practicum in Landscape Management (1)



- HORT351 - Greenhouse Operations (3)

- [HORT436 - Floral Design Capstone \(3\)](#)
- [HORT460 - Cut Flower Crops \(2\)](#)
- [HORT490R - University Events Florals \(1\)](#)
- [MKT353 - Web Business Creation \(3\)](#)

**Grand Total Credits: 60**

Degree

Associate of Applied Science (AAS)

Department

Department of Applied Plant Science

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# BYU-Idaho Academic Catalog

## Food and Nutrition (Cluster)

### Program Description

A cluster of courses (12-15 credits) designed to prepare students in Food and Nutrition, supplemental to a major.

### Program Code

1021

### Program Course Requirements

#### Core Courses

8

Total Credits

- Take the following:
  - [FCS240](#) - Food Preparation (2)
  - [FS120](#) - Introduction to Food Science (3)
  - [NUTR150](#) - Essentials of Human Nutrition (3)

#### Supplemental Courses

8

Total Credits

- Take 8 credit(s) from:
  - [FCS364](#) - Science of Meal Management (3)





RECOMMENDED THAT STUDENTS WORK CLOSELY WITH CAMPUS ADVISING TO ENSURE THAT ALL NEEDED REQUIREMENTS ARE MET.

- For those students remaining at BYU-Idaho to complete a B.S. degree in Food Science, it is strongly recommended that FS 440 (Food Engineering) be taken as an elective course in year four.

## Emphasis/Concentration Course Requirements

### Emphasis Core

17

Total Credits

- Take the following:
  - [BIO264](#) - Human Anatomy and Physiology I (3)
  - [BIO264L](#) - Human Anatomy and Physiology I Lab (1)
  - [CHEM250](#) - Introductory Organic and Biochemistry (3)
  - [CHEM250L](#) - Introductory Organic and Biochemistry Lab (1)
  - [FS260](#) - Flavor and Menu Design (3)
  - [NUTR200](#) - Nutrient Metabolism (3)
  - [NUTR400](#) - Nutritional Biochemistry (3)

### Emphasis Core 2

4 - 5

Total Credits

- Take 1 of the following:
  - [MATH109](#) - Precalculus (5)
  - [MATH112X](#) - Calculus I (4)
  - [MATH119](#) - Applied Calculus for Data Analysis (4)

### Emphasis Core 3

4

Total Credits

- Take 4 credit(s) from:
  - [BIO265](#) - Human Anatomy and Physiology II (3)
  - [BIO265L](#) - Human Anatomy and Physiology II Lab (1)
  - [ECON150](#) - Economic Principles and Problems-Micro (3)
  - [ECON151](#) - Economic Principles and Problems-Macro (3)
  - [HCA280](#) - Medical Terminology (2)
  - [NUTR120](#) - Introduction to Dietetics (1)
  - [NUTR330](#) - Nutrition in the Life Cycle (3)
  - [PSYCH111](#) - General Psychology (3)

**Grand Total Credits: 25 - 26**



# BYU-Idaho Academic Catalog

## Food Science (Cluster)

### Program Description



Food Science involves the use of science and engineering principles to study food, its preservation, and processing. The Food Science cluster is designed to enhance the employability and success of students pursuing jobs within the food sector, including food production, research and development, business operations (marketing, supply chain, processing facility management), quality assurance, and regulatory/safety. Required core courses provide an understanding of food processing and preservation practices, as well as basic background in food laws and regulations. Elective coursework may be tailored to match the desired skillset associated with a student's selected major to prepare them for opportunities in the food industry.

### Program Code

1019

### Program Course Requirements



#### Core Courses

13

Total Credits



- Complete all of the following
  - Take the following:
    - [AS135 - Introduction to Meat Products \(1\)](#)
    - [FS120 - Introduction to Food Science \(3\)](#)





- [AS465](#) - Processed Meats (3)
- [FS180](#) - Survey of Food Science (1)
- [FS260](#) - Flavor and Menu Design (3)
- [FS330](#) - Food Processing (2)
- [FS340](#) - Applied Sensory Science (2)
- [FS350](#) - Food Chemistry (3)
- [FS360](#) - Food Microbiology (3)
- [FS440](#) - Food Engineering (3)
- [FS450](#) - Food Analysis (3)

**Grand Total Credits: 13**

Department

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Department of Animal and Food Science

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# BYU-Idaho Academic Catalog

## Food Science (Minor)

### Program Description



Food Science involves the use of science and engineering principles to study food, its preservation, and processing. The Food Science minor is designed to enhance the employability and success of students pursuing jobs within the food sector, including food production, research and development, business operations (marketing, supply chain, processing facility management), quality assurance, and regulatory/food safety. Required core courses provide a foundation in food processing and preservation practices, as well as basic background in food laws and regulations. Elective coursework may be tailored to match the desired skillset associated with a student's selected major to prepare them for opportunities in the food industry.

### Program Code

263

### Program Course Requirements



#### Introductory Core

8

Total Credits



- Take the following:
  - [FS120](#) - Introduction to Food Science (3)
  - [FS220](#) - Food Laws and Regulations (2)
  - [FS230](#) - Introduction to Food Preservation and Processing (1)





- Complete 2 of the following

Option 1:

- Take the following:
  - [BIO221](#) - General Microbiology (3)
  - [BIO222](#) - General Microbiology Lab (1)

Option 2:

- Take the following:
  - [BIO321](#) - Biology of Microorganisms (4)

Option 3:

- Take the following:
  - [CHEM101](#) - Introductory Chemistry (3)

Option 4:

- Take the following:
  - [CHEM105](#) - General Chemistry I (3)

Option 5:

- Take the following:
  - [MATH221B](#) - Biostatistics (3)

Option 6:

- Take the following:
  - [NUTR150](#) - Essentials of Human Nutrition (3)

Option 7:

- Take the following:
  - [PH105](#) - Introductory Applied Physics I (4)

Option 8:

- Take the following:
  - [PH121](#) - Principles of Physics I (3)

## Electives

6

Total Credits



- Take 6 credit(s) from:
  - [AS135](#) - Introduction to Meat Products (1)
  - [AS355](#) - Principles of Meat Science (4)
  - [AS465](#) - Processed Meats (3)
  - [FS180](#) - Survey of Food Science (1)
  - [FS260](#) - Flavor and Menu Design (3)
  - [FS340](#) - Applied Sensory Science (2)
  - [FS350](#) - Food Chemistry (3)
  - [FS360](#) - Food Microbiology (3)
  - [FS440](#) - Food Engineering (3)
  - [FS450](#) - Food Analysis (3)



# BYU-Idaho Academic Catalog

## Food Sciences (Major: Bachelor-Level)

### Program Description



Food science is the use of science and engineering principles to study food, its preservation, and processing. The Food Science degree (648) prepares students to work in food product development, food processing, quality assurance, and regulatory agencies in food safety, or to enter graduate school. With proper emphasis and course selection, students can also prepare for entrance into dietetic or health science programs. Students in this program will study food chemistry and microbiology; food processing and safety; and the analysis of food using chemical, physical, and sensory techniques.

### Program Code

648

### Program Learning Outcomes (PLOs)

1. Critically and creatively analyze and resolve technical challenges utilizing acquired food science knowledge, the existing scientific literature, and/or a rational experimental approach.
2. Demonstrate time and project management, capacity for leadership and team work, integrity and ethical behavior, as well as lifelong learning skills.
3. Apply food science principles and practices to real world applications in food processing/engineering, chemistry/analysis, microbiology/safety, and product development.
4. Professionally and accurately communicate technical information to both professional and lay audiences using various forms of written, visual, and oral means.





- grades of C- or higher in major courses
- a 2.0 cumulative GPA
- a minimum of 120 cumulative credits
- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.

\*Take Core Courses during your first 2 semesters.

## Program Course Requirements



### General Education

39

Total Credits



- Take at least 39 credit(s) to complete one of the following program(s): [GE - BACH](#)

### Core

38

Total Credits



- Take the following:

- [BIO221](#) - General Microbiology (3)
- [BIO222](#) - General Microbiology Lab (1)
- [CHEM105](#) - General Chemistry I (3)
- [CHEM105L](#) - General Chemistry Laboratory I (1)
- [FS120](#) - Introduction to Food Science (3)
- [FS180](#) - Survey of Food Science (1)
- [FS220](#) - Food Laws and Regulations (2)
- [FS230](#) - Introduction to Food Preservation and Processing (1)
- [FS330](#) - Food Processing (2)
- [FS340](#) - Applied Sensory Science (2)
- [FS350](#) - Food Chemistry (3)
- [FS360](#) - Food Microbiology (3)
- [FS450](#) - Food Analysis (3)
- [FS490](#) - Product Development (4)
- [MATH221B](#) - Biostatistics (3)
- [NUTR150](#) - Essentials of Human Nutrition (3)

### Experiential Learning

3

Total Credits



- Take 3 credit(s) from:

- [FS498R](#) - Food Science Internship (1 - 3)



- Take between 23 and 33 credits from the following types of courses:  
one Emphasis option listed below.

**Unspecified Electives**

7

Total Credits



- Take at least 7 credit(s) from  
any eligible university credits.

In addition to courses meeting the requirements for this program, students can take other courses offered by the university, for which they meet the course eligibility requirements, to bring their total number of credits to the minimum of 120 credits required for graduation.

**Grand Total Credits: 110 - 120****Degree**

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Bachelor of Science (BS)**Department**

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Department of Animal and Food Science**Emphasis/Concentration Options**

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Health Science ^**Emphasis/Concentration Description**

This emphasis provides a Food Science degree path for those students preparing for entrance into post-graduate health science professional programs (e.g., dental, medical school, etc.), offering a secondary Food Science career option should professional school plans change or fail to materialize. It is very important for students to work closely with campus advising to ensure that professional school entrance requirements are met.

Alternatively, this emphasis is an attractive degree option for students exiting medical science majors in pursuit of other science-focused career options, allowing accumulated health science course credits to be captured and applied toward a Food Science degree.

**Emphasis/Concentration Code**

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225**Program Notes**

- To meet entrance requirements for most professional schools, elective credits must be utilized to take most of the specified course electives (BIO 180/180L, BIO 181/181L, BIO 460, BIO 461, CHEM 352/352L, PH 106, PSYCH

**Emphasis Core**

20

Total Credits



- Take the following:
  - [BIO385](#) - Principles of Biochemistry (4)
  - [CHEM106](#) - General Chemistry II (3)
  - [CHEM106L](#) - General Chemistry Laboratory II (1)
  - [CHEM351](#) - Organic Chemistry I (3)
  - [CHEM351L](#) - Organic Chemistry Laboratory I (1)
  - [MATH112X](#) - Calculus I (4)
  - [PH105](#) - Introductory Applied Physics I (4)

**Emphasis Electives**

5

Total Credits



- Take 5 credit(s) from:
  - [BIO180](#) - Introduction to Biology I (3)
  - [BIO180L](#) - Introduction to Biology I Lab (1)
  - [BIO181](#) - Introduction to Biology II (3)
  - [BIO181L](#) - Introduction to Biology II Lab (1)
  - [BIO460](#) - Human Anatomy with Lab (4)
  - [BIO461](#) - Principles of Physiology (5)
  - [CHEM352](#) - Organic Chemistry II (3)
  - [CHEM352L](#) - Organic Chemistry Laboratory II (1)
  - [PH106](#) - Introductory Applied Physics II (4)
  - [PSYCH111](#) - General Psychology (3)

**Grand Total Credits: 25**

Management



Nutrition/Dietetics



Science





This emphasis provides those students that have an interest in managing people or working on the business side of the food industry with course offerings in human resource management, accounting, finance, marketing, entrepreneurship, sales, etc. It may also serve as a springboard for those desiring to pursue an MBA professional degree.

### Emphasis/Concentration Code

226

### Emphasis/Concentration Course Requirements

#### Emphasis Core

26 - 28

Total Credits



- Complete all of the following
  - Take the following:
    - [ACCTG180](#) - Survey of Accounting (3)
    - [CHEM250](#) - Introductory Organic and Biochemistry (3)
    - [CHEM250L](#) - Introductory Organic and Biochemistry Lab (1)
    - [MKT310](#) - Marketing Management (3)
    - [SCM361](#) - Operations Management (3)

AND

  - Take 1 of the following:
    - [MATH112X](#) - Calculus I (4)
    - [MATH109](#) - Precalculus (5)
    - [MATH119](#) - Applied Calculus for Data Analysis (4)

AND

  - Take 1 of the following:
    - [PH105](#) - Introductory Applied Physics I (4)
    - [PH121](#) - Principles of Physics I (3)

AND

  - Take 6 credit(s) from:
    - [BUS270](#) - Human Resource Management (3)
    - [BUS410](#) - Principles of Advanced Business Management (3)
    - [FIN301](#) - Financial Management (3)
    - [MKT420](#) - Marketing Analysis (3)
    - [MKT370](#) - Professional Sales (3)

**Grand Total Credits: 26 - 28**

Nutrition/Dietetics





NUTRITION/DIETETICS

Science ^

## Emphasis/Concentration Description

This emphasis provides a strong background in math and science for those students pursuing either an entry-level job in the food industry or planning to pursue graduate studies after completion of the undergraduate degree. This program is designed to meet entrance requirements for most graduate programs in Food Science.

## Emphasis/Concentration Code

227

## Emphasis/Concentration Course Requirements

**Emphasis Core****17**Total Credits ^

- Take the following:
  - [BIO101](#) - Introductory Biology for Allied Health (3)
  - [CHEM106](#) - General Chemistry II (3)
  - [CHEM106L](#) - General Chemistry Laboratory II (1)
  - [CHEM351](#) - Organic Chemistry I (3)
  - [CHEM351L](#) - Organic Chemistry Laboratory I (1)
  - [COMM102](#) - Public Speaking (3)
  - [FS440](#) - Food Engineering (3)

**Math Courses****4**Total Credits ^

- Take 1 of the following:
  - [MATH112X](#) - Calculus I (4)
  - [MATH119](#) - Applied Calculus for Data Analysis (4)

**Physics Courses****3 - 4**Total Credits ^

- Take 1 of the following:
  - [PH105](#) - Introductory Applied Physics I (4)
  - [PH121](#) - Principles of Physics I (3)



- [BIO505 - Principles of Biochemistry](#) (4)
- [NUTR400 - Nutritional Biochemistry](#) (3)

**Emphasis Electives****4**

Total Credits



- Complete 1 of the following

Option 1:

- Take the following:
  - [AS135 - Introduction to Meat Products](#) (1)
  - [AS465 - Processed Meats](#) (3)

Option 2:

- Take the following:
  - [FS435 - Dairy Processing](#) (4)

**Grand Total Credits: 31 - 33**

Technology

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**Total Credits**

- Complete all of the following
  - Take the following:
    - [CHEM250](#) - Introductory Organic and Biochemistry (3)
    - [CHEM250L](#) - Introductory Organic and Biochemistry Lab (1)
    - [FS440](#) - Food Engineering (3)

AND

  - Take 1 of the following:
    - [MATH112X](#) - Calculus I (4)
    - [MATH109](#) - Precalculus (5)
    - [MATH119](#) - Applied Calculus for Data Analysis (4)

AND

  - Take 1 of the following:
    - [PH105](#) - Introductory Applied Physics I (4)
    - [PH121](#) - Principles of Physics I (3)

**4****Total Credits**

- Complete 1 of the following
  - Option 1:
    - Take 4 credit(s) from:
      - [AS135](#) - Introduction to Meat Products (1)
      - [AS465](#) - Processed Meats (3)
  - Option 2:
    - Take 4 credit(s) from:
      - [FS435](#) - Dairy Processing (4)

**7****Total Credits**

- Take 7 credit(s) from:
  - [AS135](#) - Introduction to Meat Products (1)
  - [AS465](#) - Processed Meats (3)
  - [BUS270](#) - Human Resource Management (3)
  - [FS260](#) - Flavor and Menu Design (3)
  - [FS435](#) - Dairy Processing (4)
  - [NUTR400](#) - Nutritional Biochemistry (3)
  - [SCM361](#) - Operations Management (3)



# BYU-Idaho Academic Catalog

## GIS in Agriculture and Natural Resources (Cluster)

### Program Description



A cluster of courses (12-15 credits) designed to prepare students in GIS in Agriculture and Natural Resources, supplemental to a major.

### Program Code

1506

### Program Course Requirements



#### Core Courses

12 - 14

Total Credits



- Complete all of the following
  - Take the following:
    - [AGTEC186](#) - Introduction to Precision Agriculture (2)
    - [AGTEC486](#) - Precision Agriculture (3)
    - [GIS250](#) - Spatial Analysis (3)
  - AND
  - Take 2 of the following:
    - [ITM111](#) - Introduction to Databases (3)
    - [ITM220](#) - SQL (3)





# BYU-Idaho Academic Catalog

## Graphic Design Fundamentals (Certificate)

### Program Description



The Graphic Design Fundamentals certificate provides a foundation in the skills required to work as a professional designer. Visual design, typography, and conceptual skills, are used in developing work that is functional and meets predetermined outcomes.

### Program Code

C136

### Program Learning Outcomes (PLOs)

1. Follow a design process that leads to consistent effective results.
2. Set typography with clear hierarchy that makes content more readable.
3. Make images that clearly communicate ideas and information to others.
4. Use industry-standard design software to efficiently complete design work.
5. Prepare design files that are production-ready.

### Program Notes



- To be awarded an academic certificate independent of a bachelor's or an associate degree, a student must earn:





## Program Course Requirements



### Certificate Core

12



Total Credits

- Take the following:
  - [ART125](#) - Adobe CC Basics (3)
  - [ART130](#) - Introduction to Graphic Design (3)
  - [ART230](#) - Typography I (3)
  - [ART235](#) - Graphic Design (3)

**Grand Total Credits: 12**

### Department

Department of Art

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# BYU-Idaho Academic Catalog

## Graphic Design (Major: Bachelor-Level)

### Program Description



Graphic Designers use creativity, critical thinking, and artistic skill to solve some of today's most interesting problems. Graphic Design shows up everywhere from brands developed for large corporations to patterns created for products sold in stores, to the interfaces used on computer programs and in apps.

As a Graphic Design student at BYU Idaho, you first engage in a wide variety of experiences that help you develop core skills in design processes, typography, visual communication, and software tools. You will then explore applying those skills in one of three emphasis areas: Branding and Identity Design, Surface and Pattern Design, or UX/UI Design. After successfully completing this program, you are ready for an engaging career in Graphic Design.

Students may initially declare a Graphic Design major but, will apply to continue on in the major towards the end of their sophomore year after completing a series of core courses. Students who do not continue on in the major may complete a minor in Graphic Design or a concentration in Graphic Design that can be used with an Interdisciplinary Studies degree.

### Program Code

667

### Program Learning Outcomes (PLOs)

1. Critique using design fundamentals.
2. Generate effective typography.
3. Demonstrate competency in design software.
4. Create artwork by following the design process.





## Program Notes



- To graduate with a Bachelor's degree, a student must earn:
  - grades of C- or higher in major courses
  - a 2.0 cumulative GPA
  - a minimum of 120 cumulative credits
- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.

## Program Course Requirements



### General Education

39

Total Credits



- Take at least 39 credit(s) to complete one of the following program(s): [GE - BACH](#)

### Core

35 - 38

Total Credits



- Take the following:
  - [ART106](#) - Freshman Art Orientation Seminar (.5)
  - [ART107](#) - Design and Color (3)
  - [ART110](#) - Drawing I (3)
  - [ART125](#) - Adobe CC Basics (3)
  - [ART130](#) - Introduction to Graphic Design (3)
  - [ART201](#) - Art History I (3)
  - [ART202](#) - Art History II (3)
  - [ART230](#) - Typography I (3)
  - [ART235](#) - Graphic Design (3)
  - [ART235L](#) - Graphic Design Portfolio Lab (0.5)
  - [ART306](#) - History of Design and Illustration (3)
  - [ART392](#) - Business for the Professional Artist (2)
  - [ART334R](#) - Typography II (3)
  - [ART492](#) - Portfolio Capstone (1)
  - [ART498R](#) - Internship in the Arts (1 - 4)

### Art Seminar

1.5

Total Credits



- Take 1.5 credit(s) from:



- Take at least 12 credit(s) from one of Emphasis options below.

**Elective Major Credits****9**

Total Credits



- Take 9 credit(s) from:
  - [ART142](#) - Media Experimentation (3)
  - [ART160](#) - Photography I (3)
  - [ART210](#) - Drawing II (3)
  - [ART217](#) - Design and Color II (3)
  - [ART220](#) - Ceramics I (3)
  - [ART231](#) - Design Thinking: Inquiry and Innovation (3)
  - [ART245R](#) - 2D Digital Illustration (3)
  - [ART250](#) - Oil Painting I (3)
  - [ART251R](#) - Watercolor (3)
  - [ART260](#) - Intermediate Photography (3)
  - [ART270](#) - Printmaking I (3)
  - [ART280](#) - Sculpture I (3)
  - [ART290R](#) - Independent Study (1 - 4)
  - [ART310](#) - Expressive Drawing (3)
  - [ART312R](#) - Figure Drawing (3)
  - [ART320](#) - Ceramics II (3)
  - [ART332R](#) - User Interface Design (3)
  - [ART333R](#) - Surface and Pattern Design (3)
  - [ART335R](#) - Identity Design (3)
  - [ART336](#) - Book Arts (3)
  - [ART431R](#) - User Experience Design (3)
  - [ART350R](#) - Painting II (3)
  - [ART380R](#) - Sculpture Medium and Methodology (3)
  - [ART395A](#) - Travel Study in the Arts (A) (1)
  - [ART395B](#) - Travel Study in the Arts (B) (1)
  - [ART395C](#) - Travel Study in the Arts (C) (1)
  - [ART395D](#) - Travel Study in the Arts (D) (1 - 3)
  - [ART396R](#) - Special Topics (3)
  - [ART432R](#) - Design Thinking: User Research (3)
  - [ART435R](#) - Three-Dimensional Graphic Design (3)
  - [ART436R](#) - Motion Design (3)
  - [ART334R](#) - Typography II (3)
  - [ART439R](#) - Professional Projects (3)



In addition to courses meeting the requirements for this program, students can take other courses offered by the university, for which they meet the course eligibility requirements, to bring their total number of credits to the minimum of 120 credits required for graduation. Additional credits may also come from credits received through General Education courses.

**Grand Total Credits: 117.5 - 120.5****Degree**

Bachelor of Arts (BA)

**Department**

Department of Art

**Emphasis/Concentration Options**

Branding and Identity ^

**Emphasis/Concentration Description**

Branding and Identity designers use their design process skills, strong visual sense, and understanding of typography to help clients solve design problems.

**Emphasis/Concentration Code**

247

**Emphasis/Concentration Course Requirements****Emphasis Core**

12

Total Credits ^

- Take the following:
  - [ART231](#) - Design Thinking: Inquiry and Innovation (3)
  - [ART335R](#) - Identity Design (3)
  - [ART436R](#) - Motion Design (3)
  - [ART435R](#) - Three-Dimensional Graphic Design (3)

**Grand Total Credits: 12**

Surface and Pattern Design ▼



Surface and Pattern Design

### Emphasis/Concentration Description

Surface and pattern designers are designers that illustrate. They create repeating patterns, hand lettering, and/or character designs to embellish and differentiate products. Professionally they could work in-house or from home to license their designs for use on a wide variety of retail products.

### Emphasis/Concentration Code

249

### Emphasis/Concentration Course Requirements

**Emphasis Core****12**

Total Credits

- Complete all of the following
  - Take the following:
    - [ART142](#) - Media Experimentation (3)
    - [ART245R](#) - 2D Digital Illustration (3)
    - [ART333R](#) - Surface and Pattern Design (3)
  - AND
  - Take 1 of the following:
    - [ART251R](#) - Watercolor (3)
    - [ART270](#) - Printmaking I (3)

**Grand Total Credits: 12**

UX/UI Emphasis





Surface and Pattern Design

## UX/UI Emphasis

### Emphasis/Concentration Description

UX/UI Designers need to understand not only how to make things look professional but, also, how to make complex tools easy for others to use. A UX/UI designer possesses strong design skills, user experience skills, a basic understanding of human psychology, and a healthy dose of empathy and curiosity to help meet their audience's needs.

### Emphasis/Concentration Code

248

### Program Notes

- All graphic design students must own a computer capable of running the most current version of Adobe Creative Cloud or equivalent program.

### Emphasis/Concentration Course Requirements

#### Emphasis Core

12

Total Credits

- Take the following:
  - [ART231](#) - Design Thinking: Inquiry and Innovation (3)
  - [ART332R](#) - User Interface Design (3)
  - [ART431R](#) - User Experience Design (3)
  - [ART432R](#) - Design Thinking: User Research (3)

**Grand Total Credits: 12**



# BYU-Idaho Academic Catalog

## Graphic Design (Minor)

### Program Description



The Graphic Design Minor was created to help students develop basic skills in visual communication and in graphic design. This minor can be used as a building block in the Graphic Design Bachelor of Arts Degree, or as an element of an Interdisciplinary Studies Degree. It can also be used as part of an integrated standard degree in another discipline.

### Program Code

274

### Program Learning Outcomes (PLOs)

1. Critique using design fundamentals (5- Evaluate)
2. Generate effective typography (6 - Create)
3. Demonstrate competency in design software (3 - Applying)
4. Create artwork by following the design process (6 - Create)
5. Interpret client need through critical thought processes (5 - Evaluate)
6. Demonstrate business acumen in the design industry (3 - Applying)

### Program Notes





## Program Course Requirements



### Introductory Core

12.5

Total Credits



- Take the following:
  - [ART106](#) - Freshman Art Orientation Seminar (.5)
  - [ART107](#) - Design and Color (3)
  - [ART110](#) - Drawing I (3)
  - [ART201](#) - Art History I (3)
  - [ART202](#) - Art History II (3)

### Core

12

Total Credits



- Take the following:
  - [ART125](#) - Adobe CC Basics (3)
  - [ART130](#) - Introduction to Graphic Design (3)
  - [ART230](#) - Typography I (3)
  - [ART235](#) - Graphic Design (3)

**Grand Total Credits: 24.5**

## Department

Department of Art





# BYU-Idaho Academic Catalog

## Horticulture (Cluster)

### Program Description



Program Description: A cluster of courses (12-15 credits) designed to prepare students in an understanding of general Horticultural practices. This cluster will introduce students to the world of Horticulture, and allow them to have the skills and knowledge to enter into entry level employment in the field of Horticulture.

### Program Code

1501

### Program Course Requirements



#### Core Courses

12

Total Credits



- Take 12 credit(s) from:
  - [APS103](#) - Home Gardening (3)
  - [APS122](#) - Introduction to Plant Science (3)
  - [APS220](#) - Horticultural Soils (3)
  - [APS412](#) - Integrated Pest Management (2)
  - [HORT224](#) - Introductory Plant Identification (2)
  - [HORT230](#) - Introduction to Landscape Architecture and Design (3)
  - [HORT235](#) - Floral Design (3)





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- HORT322 - Woody Plant Identification (3)

- [HORT455 - Nursery Management \(2\)](#)
- [HORT460 - Cut Flower Crops \(2\)](#)
- [HORT461 - Potted Plants \(2\)](#)
- [HORT470 - Edible Landscaping \(2\)](#)

**Grand Total Credits: 12**

Department

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Department of Applied Plant Science

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# BYU-Idaho Academic Catalog

## Horticulture (Major: Associate-Level)

### Program Description



The Horticulture Program is a nationally recognized and accredited leader in horticulture education preparing students for expanding career opportunities in nurseries, garden centers, florist shops, floral wholesalers, plant brokers, landscape contractors, lawn service companies, interior plant companies, greenhouses, golf courses, parks, botanical gardens, landscape management, event planning, design-build, plant production, plant breeding, horticulture sales and marketing, and horticulture supply companies.

### Program Code

372

### Program Learning Outcomes (PLOs)

1. Be able to identify plant materials and their uses in areas of specialization in the plant industry.
2. Use the principles and elements of design to create meaningful and useful environments.
3. Demonstrate a general understanding of Horticulture practices, landscape management, and plant culture.
4. Demonstrate appropriate techniques for growing plants.

### Program Notes



- To graduate with an associate degree, a student must earn:





## Program Course Requirements



### General Education

**18**

Total Credits



- Take at least 18 credit(s) to complete one of the following program(s): [GE - AAS](#)

### Core

**23**

Total Credits



- Take the following:
  - [APS122](#) - Introduction to Plant Science (3)
  - [APS220](#) - Horticultural Soils (3)
  - [APS299R](#) - Seminar (1)
  - [APS300](#) - Irrigation and Water Management (2)
  - [HORT224](#) - Introductory Plant Identification (2)
  - [HORT230](#) - Introduction to Landscape Architecture and Design (3)
  - [HORT235](#) - Floral Design (3)
  - [HORT319](#) - Landscape Management (3)
  - [HORT320](#) - Plant Propagation (3)

### Experiential Learning

**1**

Total Credits



- Take 1 credit(s) from:

- [APS398R](#) - Internship (1 - 5)

### Elective Major Credits

**18**

Total Credits



- Take 18 credit(s) from:
  - [APS103](#) - Home Gardening (3)
  - [APS123](#) - Introduction to Plant Science Laboratory (1)
  - [APS220L](#) - Soils Lab (1)
  - [APS250](#) - Agriculture Leadership and Management (3)
  - [APS412](#) - Integrated Pest Management (2)
  - [BUS200](#) - Small Business Management (3)
  - [BUS210](#) - Small Business Creation (3)
  - [BUS310](#) - Launching New Ventures (3)

[HORT301 - Irrigation and Water Management \(2\)](#) (1)

- [HORT311 - Introduction to Arboriculture \(2\)](#)
- [HORT322 - Woody Plant Identification \(3\)](#)
- [HORT325 - Interiorscaping \(2\)](#)
- [HORT334 - Greenhouse Operations \(3\)](#)
- [HORT351 - Horticulture Business and Bidding \(2\)](#)
- [HORT455 - Nursery Management \(2\)](#)
- [HORT460 - Cut Flower Crops \(2\)](#)
- [HORT461 - Potted Plants \(2\)](#)
- [HORT470 - Edible Landscaping \(2\)](#)

**Grand Total Credits: 60****Degree**

Associate of Applied Science (AAS)

**Department**

Department of Applied Plant Science

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# BYU-Idaho Academic Catalog

## Horticulture (Major: Bachelor-Level)

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### Program Description



The Horticulture Program is a nationally recognized and accredited leader in horticulture education preparing students for expanding career opportunities in nurseries, garden centers, florist shops, floral wholesalers, plant brokers, landscape contractors, lawn service companies, interior plant companies, greenhouses, golf courses, parks, botanical gardens, landscape management, event planning, design build, plant production, plant breeding, horticulture sales and marketing, and horticulture supply companies.

### Program Code

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695

### Program Learning Outcomes (PLOs)

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1. Apply the principles and elements of design to horticulture.
2. Create innovative horticultural designs drawing on your divine potential.
3. Demonstrate proficiency of the technical skills required in the horticulture industry.
4. Identify plants in order to use them correctly in the preferred application.
5. Apply the principles of plant science in the horticulture industry.
6. Network with horticulture professionals.
7. Apply business management principles specific to the horticulture industry.





- grades of C- or higher in major courses
- a 2.0 cumulative GPA
- a minimum of 120 cumulative credits
- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.

## Program Course Requirements



### General Education

**39**

Total Credits



- Take at least 39 credit(s) to complete one of the following program(s): [GE - BACH](#)

### Core

**20**

Total Credits



- Take the following:
  - [APS122](#) - Introduction to Plant Science (3)
  - [APS123](#) - Introduction to Plant Science Laboratory (1)
  - [APS220](#) - Horticultural Soils (3)
  - [APS220L](#) - Soils Lab (1)
  - [APS299R](#) - Seminar (1)
  - [HORT224](#) - Introductory Plant Identification (2)
  - [HORT230](#) - Introduction to Landscape Architecture and Design (3)
  - [HORT235](#) - Floral Design (3)
  - [HORT320](#) - Plant Propagation (3)

### Experiential Learning

**2**

Total Credits



- Complete all of the following
  - Take 1 of the following:
    - [HORT277R](#) - Practicum in Landscape Management (1)
    - [HORT287R](#) - Practicum in Floral Design (1)
    - [HORT297R](#) - Practicum in Plant shop (1)
  - AND
  - Take 1 credit(s) from:
    - [APS398R](#) - Internship (1 - 5)

### Component(s)

**12**

**Elective Major Credits****21**

Total Credits

- Take 21 credit(s) from:
  - [ACCTG180](#) - Survey of Accounting (3)
  - [APS103](#) - Home Gardening (3)
  - [APS290R](#) - Special Problems (1 - 3)
  - [APS300](#) - Irrigation and Water Management (2)
  - [APS412](#) - Integrated Pest Management (2)
  - [APS490R](#) - Special Topics in Applied Plant Science (3)
  - [FCS140](#) - Introduction to Interior Design (3)
  - [HORT277R](#) - Practicum in Landscape Management (1)
  - [HORT287R](#) - Practicum in Floral Design (1)
  - [HORT297R](#) - Practicum in Plant shop (1)
  - [HORT304L](#) - Irrigation and Water Management Lab (1)
  - [HORT311](#) - Introduction to Arboriculture (2)
  - [HORT319](#) - Landscape Management (3)
  - [HORT322](#) - Woody Plant Identification (3)
  - [HORT325](#) - Interiorscaping (2)
  - [HORT328](#) - Wedding and Event Planning (2)
  - [HORT334](#) - Greenhouse Operations (3)
  - [HORT338R](#) - Advanced Wedding and Event Planning (3)
  - [HORT350R](#) - Landscape Competition (1)
  - [HORT351](#) - Horticulture Business and Bidding (2)
  - [HORT430](#) - Advanced Landscape Design (3)
  - [HORT435](#) - Advanced Floral Design (2)
  - [HORT436](#) - Floral Design Capstone (3)
  - [HORT438R](#) - Bridal Couture Floral Design (2)
  - [HORT453](#) - Land Construction Material (4)
  - [HORT455](#) - Nursery Management (2)
  - [HORT460](#) - Cut Flower Crops (2)
  - [HORT461](#) - Potted Plants (2)
  - [HORT470](#) - Edible Landscaping (2)
  - [SPAN101](#) - Beginning Spanish I (4)
  - [SPAN102](#) - Beginning Spanish II (4)

**Unspecified Electives****26**

Total Credits

- Take at least 26 credit(s) from



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**Grand Total Credits: 120**

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Degree

Bachelor of Science (BS)

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Department

Department of Applied Plant Science

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# BYU-Idaho Academic Catalog

## Horticulture (Minor)

### Program Description



A group of courses (20-24 credits) designed to encourage focused learning in Horticulture, complementary to an integrated standard degree or as an element of an interdisciplinary studies degree.

### Program Code

204

### Program Notes



- No grade less than C- in Minor courses.

### Program Course Requirements



#### Core

6

Total Credits

- Complete all of the following
  - Take the following:
    - [APS122 - Introduction to Plant Science \(3\)](#)



**Supplemental Courses****17**

Total Credits

^

- Take 17 credit(s) from:
  - [APS103](#) - Home Gardening (3)
  - [APS123](#) - Introduction to Plant Science Laboratory (1)
  - [APS220](#) - Horticultural Soils (3)
  - [APS299R](#) - Seminar (1)
  - [APS300](#) - Irrigation and Water Management (2)
  - [APS312](#) - Alternative Cropping Systems (2)
  - [APS339R](#) - APS Portfolio (1)
  - [APS350](#) - Plant Breeding and Genetics (3)
  - [APS412](#) - Integrated Pest Management (2)
  - [APS465](#) - Integrated Weed Management (3)
  - [HORT224](#) - Introductory Plant Identification (2)
  - [HORT287R](#) - Practicum in Floral Design (1)
  - [HORT304L](#) - Irrigation and Water Management Lab (1)
  - [HORT311](#) - Introduction to Arboriculture (2)
  - [HORT319](#) - Landscape Management (3)
  - [HORT320](#) - Plant Propagation (3)
  - [HORT322](#) - Woody Plant Identification (3)
  - [HORT325](#) - Interiorscaping (2)
  - [HORT328](#) - Wedding and Event Planning (2)
  - [HORT334](#) - Greenhouse Operations (3)
  - [HORT338R](#) - Advanced Wedding and Event Planning (3)
  - [HORT430](#) - Advanced Landscape Design (3)
  - [HORT435](#) - Advanced Floral Design (2)
  - [HORT455](#) - Nursery Management (2)
  - [HORT460](#) - Cut Flower Crops (2)
  - [HORT461](#) - Potted Plants (2)
  - [HORT470](#) - Edible Landscaping (2)

**Grand Total Credits: 23**

Department

Department of Applied Plant Science



# BYU-Idaho Academic Catalog

## Human Nutrition (Cluster)

### Program Description



A cluster of courses (12-15 credits) designed to prepare students in Human Nutrition, supplemental to a major.

### Program Code

1020

### Program Course Requirements



#### Core Courses

9

Total Credits



- Take the following:

- [CHEM101](#) - Introductory Chemistry (3)
- [NUTR150](#) - Essentials of Human Nutrition (3)
- [NUTR200](#) - Nutrient Metabolism (3)

#### Supplemental Courses

6

Total Credits



- Take 6 credit(s) from:

- [CHEM250](#) - Introductory Organic and Biochemistry (3)





# BYU-Idaho Academic Catalog

## Human Resource Management (Certificate)

### Program Description



The Human Resource (HR) Management certificate is designed for students who wish to attain an HR position in a wide variety of businesses. The certificate blends courses from the Psychology, Communication, and Management Departments.

### Program Code

C140

### Program Learning Outcomes (PLOs)

1. Apply psychological principles in workplace settings, including learning, motivation, and development theory.
2. Apply interpersonal relationship principles and skills in workplace settings, including self-concept, perception, gender and culture impact, verbal and nonverbal language, listening, self-disclosure, defensiveness, and conflict.
3. Describe common human resource issues in a workplace situation and apply appropriate principles, policies, and practices to maximize human capital performance.
4. Apply principled negotiation and conflict resolution skills in typical workplace settings.
5. Explain legal issues affecting Human Resource Management in a workplace settings.
6. Describe common cross-cultural communication, HRM and leadership issues that emerge in international business, and apply appropriate principles to maximize cross-cultural team performance.





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earn:

- grades of C- or higher in required courses
- a minimum certificate program grade point average of 2.0
- Completion of this certificate does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.
- This Certificate is not available to online students.

## Program Course Requirements



### Certificate Core

**15**

Total Credits



- Take the following:
  - [BUS270](#) - Human Resource Management (3)
  - [BUS375](#) - Business Law (3)
  - [COMM250](#) - Organizational Principles (3)
  - [COMM450](#) - Conflict Resolution and Negotiation (3)
  - [PSYCH111](#) - General Psychology (3)

**Grand Total Credits: 15**

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### Department

Department of Business Management





# BYU-Idaho Academic Catalog

## Illustration (Major: Bachelor-Level)

### Program Description



Illustrators are creative problem-solvers who use their critical thinking and artistic skill to meet the visual demands of today's commercial world. They are in demand across a number of industries that include publishing, advertising, and entertainment, as well as a broad array of entrepreneurial and freelance opportunities. Illustration majors will have the opportunity to explore a diverse range of experiences tailored to honing your drawing, painting, and digital illustration skills - all while preparing them for a dynamic and engaging career.

As students progress through the degree, they will eventually be required to successfully complete a formal portfolio review. This review will require that the student be able to demonstrate a certain level of proficiency in their drawing, painting, compositional, and illustration ability to be permitted to move forward in the program. Students that are unable to demonstrate these proficiencies will be permitted to complete either the Illustration minor or concentration, but will be required to change their major.

### Program Code

664

### Program Learning Outcomes (PLOs)

1. Demonstrate knowledge in different arenas of illustration markets, helping them to decide which market will be best for their personality and skill set.
2. Demonstrate proficiency in art-making skills that will help them develop personal styles and visual voice.
3. Show knowledge of current traditional and digital media used in all areas of the illustration market.
4. Produce industry-ready illustrations that also convey their morals and beliefs.





- grades of C- or higher in major courses
- a 2.0 cumulative GPA
- a minimum of 120 cumulative credits
- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.

## Program Course Requirements



### General Education

39

Total Credits



- Take at least 39 credit(s) to complete one of the following program(s): [GE - BACH](#)



### Introductory Core

31

Total Credits



- Complete all of the following

- Take the following:

- [ART106](#) - Freshman Art Orientation Seminar (.5)
    - [ART107](#) - Design and Color (3)
    - [ART110](#) - Drawing I (3)
    - [ART142](#) - Media Experimentation (3)
    - [ART201](#) - Art History I (3)
    - [ART202](#) - Art History II (3)
    - [ART210](#) - Drawing II (3)
    - [ART240](#) - Introduction to Illustration (3)
    - [ART240L](#) - Illustration Portfolio Lab (0.5)

AND

- Take 1 of the following:

- [ART125](#) - Adobe CC Basics (3)
    - [ART217](#) - Design and Color II (3)
    - [ART245R](#) - 2D Digital Illustration (3)
    - [ART248R](#) - Character Animation I (3)
    - [ART333R](#) - Surface and Pattern Design (3)

AND

- Take the following:

- [ART311](#) - Layout and Story (3)
    - [ART312R](#) - Figure Drawing (3)



- Take 1 of the following:
  - [ART301](#) - Art of Ancient Near East and Egypt (3)
  - [ART302](#) - Greek and Roman Art (3)
  - [ART303](#) - Medieval Art (3)
  - [ART306](#) - History of Design and Illustration (3)
  - [ART307](#) - History of Photography (3)
  - [ART401](#) - Renaissance Art (3)
  - [ART402](#) - Baroque Art (3)
  - [ART403](#) - Nineteenth Century Art (3)
  - [ART404](#) - Modern and Contemporary Art and Theory (3)

AND

- Take 1.5 credit(s) from:
  - [ART297R](#) - Art Seminar (0.5)

AND

- Take 1 of the following:
    - [ART250](#) - Oil Painting I (3)
    - [ART251R](#) - Watercolor (3)
    - [ART270](#) - Printmaking I (3)
- AND
- Take 1 of the following:
    - [ART220](#) - Ceramics I (3)
    - [ART280](#) - Sculpture I (3)
    - [ART480R](#) - Figure Sculpture (3)

### Emphasis

14

Total Credits



- Take at least 14 credit(s) from one of the Emphasis options below.

### Unspecified Electives

26

Total Credits



- Take at least 26 credit(s) from any eligible university credits.

In addition to courses meeting the requirements for this program, students can take other courses offered by the university, for which they meet the course eligibility requirements, to bring their total number of credits to the minimum of 120 credits required for graduation. Additional credits may also come from credits received through General Education courses.

**Grand Total Credits: 120.5**



Department of Art

## Emphasis/Concentration Options

### Entertainment Design



#### Emphasis/Concentration Description

Upon completion of the Entertainment Design emphasis, students will have knowledge and skills that allow them to develop an industry specific portfolio. Entertainment Designers will choose specific areas within the entertainment industry – such as: storyboarding, character design, environment design, prop design, visual development, animation, and 3D modeling. Students will also engage in important self-promotion and professional practices. Students will learn how to network and connect with industry professionals to receive additional guidance and direction.

#### Emphasis/Concentration Code

252

#### Emphasis/Concentration Course Requirements

##### Emphasis Core

14



Total Credits

- Take the following:
  - [ART342R](#) - Entertainment Illustration I (3)
  - [ART345R](#) - 3D Digital Illustration (3)
  - [ART392](#) - Business for the Professional Artist (2)
  - [ART441R](#) - Advanced Illustration (3)
  - [ART443](#) - Illustration Capstone (3)

**Grand Total Credits: 14**

### Publishing





apparel design, character design and storyboards. Students will also develop skills to start their own business, creating personal commissions, selling prints, t-shirts, stickers, posters or other art products. Publishing students will also learn how to network and connect with industry professionals and art directors to receive additional guidance and direction.

### Emphasis/Concentration Code

253

### Emphasis/Concentration Course Requirements

#### Emphasis Core

14

Total Credits



- Take the following:
  - [ART130](#) - Introduction to Graphic Design (3)
  - [ART341R](#) - Narrative Illustration (3)
  - [ART392](#) - Business for the Professional Artist (2)
  - [ART441R](#) - Advanced Illustration (3)
  - [ART443](#) - Illustration Capstone (3)

**Grand Total Credits: 14**



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# BYU-Idaho Academic Catalog

## Illustration (Minor)

### Program Description



The Illustration Minor will help students develop traditional and digital image making skills, problem solving skills, and be exposed to illustration markets. This minor is a building block in the Illustration BA , or as an element of an Interdisciplinary Studies Degree. It can also be used as part of an integrated standard degree in another discipline.

### Program Code

271

### Program Learning Outcomes (PLOs)

1. Demonstrate basic illustration fundamental skills.
2. Demonstrate Illustration composition skills
3. Gain an understanding of careers in Illustration.
4. Gain an understanding of illustration problem solving.
5. Demonstrate basic knowledge of digital and traditional art mediums.

### Program Notes



- No grade less than C- in Minor courses.
- No double counting of Minor courses.





Core

Total Credits

- Take the following:
  - [ART106](#) - Freshman Art Orientation Seminar (.5)
  - [ART107](#) - Design and Color (3)
  - [ART110](#) - Drawing I (3)
  - [ART142](#) - Media Experimentation (3)
  - [ART201](#) - Art History I (3)
  - [ART202](#) - Art History II (3)
  - [ART210](#) - Drawing II (3)
  - [ART240](#) - Introduction to Illustration (3)

Electives

3

Total Credits

- Take 1 of the following:
  - [ART125](#) - Adobe CC Basics (3)
  - [ART217](#) - Design and Color II (3)
  - [ART245R](#) - 2D Digital Illustration (3)
  - [ART248R](#) - Character Animation I (3)
  - [ART333R](#) - Surface and Pattern Design (3)

**Grand Total Credits: 24.5**

Department

Department of Art





# BYU-Idaho Academic Catalog

## Natural Resource: for Recreation Management Majors (Cluster)

### Program Description



A cluster of courses (12-15 credits) designed to prepare students in Natural Resources, supplemental to a major.

### Program Code

1102

### Program Course Requirements



#### Core Courses

7

Total Credits



- Complete all of the following
  - Take the following:
    - [BIO225](#) - Range Management (3)
  - AND
  - Take 1 of the following:
    - [BIO250](#) - Environmental Biology with Lab (4)
    - [BIO423](#) - Natural Resources Law and Policy (4)

#### Core Courses 2

3





- [GIS150](#) - Spatial Thinking (1)
- [GIS250](#) - Spatial Analysis (3)
- [RM321](#) - Outdoor Recreation Management and Ethics (3)
- [RM342](#) - Environmental Interpretation (3)

**Supplemental Courses****4 - 6**

Total Credits



- Take 2 of the following:
  - [RM123](#) - Basic Outdoor Skills (2)
  - [RM220](#) - Outdoor Leadership Seminar (3)
  - [RM223](#) - Wilderness First Aid (3)
  - [RM223F](#) - Rock Climbing (2)
  - [RM224C](#) - Canoeing (2)
  - [RM225A](#) - Cross Country Skiing (2)
  - [RM225B](#) - Winter Outdoor Skills (2)

**Grand Total Credits: 14 - 16**

Department

Department of Biology

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# BYU-Idaho Academic Catalog

## Natural Resources (Minor)

### Program Description



A group of courses (20-24 credits) designed to encourage focused learning in Natural Resources, complementary to an integrated standard degree or as an element of an interdisciplinary studies degree.

### Program Code

141



### Program Notes



- No grade less than C- in Minor courses.

### Program Course Requirements



#### Core

12

Total Credits



- Take the following:
  - [BIO208](#) - Introduction to Plant Biology (4)
  - [BIO302](#) - Ecology I (4)





- Take 10 credit(s) from:
  - [APS220](#) - Horticultural Soils (3)
  - [APS220L](#) - Soils Lab (1)
  - [BIO225](#) - Range Management (3)
  - [BIO250](#) - Environmental Biology with Lab (4)
  - [BIO312](#) - Invertebrate Zoology (4)
  - [BIO331](#) - General Entomology (3)
  - [BIO351](#) - Principles Wildlife Management (4)
  - [BIO360](#) - Principles of Fish Management (4)
  - [BIO362](#) - Stream Ecology (3)
  - [BIO392](#) - Range and Wildland Restoration (2)
  - [BIO393](#) - Range and Wildland Plant Ecology (4)
  - [BIO420](#) - Principles of Limnology (3)
  - [BIO445](#) - Ichthyology (4)
  - [BIO446](#) - Ornithology (4)
  - [BIO447](#) - Mammalogy (4)
  - [GIS150](#) - Spatial Thinking (1)
  - [GIS250](#) - Spatial Analysis (3)

**Grand Total Credits: 22**

Department

Department of Biology



# BYU-Idaho Academic Catalog

## Neuroscience (Cluster)

### Program Description



A cluster of courses (12-15 credits) designed to prepare students in Neuroscience, supplemental to a major.

### Program Code

1103

### Program Course Requirements



#### Core Courses

8

Total Credits

- Take the following:
  - [BIO240](#) - Neurobiology (4)
  - [BIO485](#) - Advanced Neuroscience (4)

#### Supplemental Courses

4

Total Credits

- Take 4 credit(s) from:
  - [BIO180](#) - Introduction to Biology I (3)
  - [BIO180L](#) - Introduction to Biology I Lab (1)





# BYU-Idaho Academic Catalog

## Nutrition (Minor)

### Program Description



The nutrition minor is designed to enhance the employability and success of students planning on pursuing jobs that require a basic background in nutrition. Those that would benefit professionally from complimenting their education with a nutrition minor might include those entering the healthcare field, education, and others. The course selection is designed to provide a foundation in the physiology and chemistry of nutrition, but also the practical skills that are needed to plan and implement healthy dietary practices.

### Program Code

242

### Program Notes



- No grade less than C- in required courses.

### Program Course Requirements



#### Introductory Core

9

Total Credits

- Take the following:



**Core**

Total Credits

- Complete 1 of the following

Option 1:

- Take the following:
  - [CHEM101](#) - Introductory Chemistry (3)
  - [CHEM101L](#) - Introductory Chemistry Lab (1)

Option 2:

- Take the following:
  - [CHEM105](#) - General Chemistry I (3)
  - [CHEM105L](#) - General Chemistry Laboratory I (1)

Option 3:

- Take the following:
  - [BIO180](#) - Introduction to Biology I (3)
  - [BIO180L](#) - Introduction to Biology I Lab (1)

Option 4:

- Take the following:
  - [BIO264](#) - Human Anatomy and Physiology I (3)
  - [BIO264L](#) - Human Anatomy and Physiology I Lab (1)

Option 5:

- Take the following:
  - [BIO230](#) - Essentials of Human Anatomy and Physiology (4)

**Electives**

6

Total Credits

- Take 6 credit(s) from:

- [FS120](#) - Introduction to Food Science (3)
- [FS220](#) - Food Laws and Regulations (2)
- [FS260](#) - Flavor and Menu Design (3)
- [NUTR120](#) - Introduction to Dietetics (1)
- [NUTR350](#) - Sports Nutrition (3)
- [NUTR400](#) - Nutritional Biochemistry (3)

**Grand Total Credits: 19****Department**

Department of Animal and Food Science



# BYU-Idaho Academic Catalog

## Accounting Fundamentals (Certificate)

### Program Description



The accounting fundamentals certificate will provide students hands-on accounting skills to enable them to be employed as entry-level bookkeepers, accounting clerks, and/or tax preparers in a variety of firms, businesses and organizational settings.

### Program Code

C179

### Program Learning Outcomes (PLOs)

1. Perform the full, accrual-basis, accounting cycle based on a set of financial transactions.
2. Utilize accounting software to set up and maintain a company's accrual-basis accounting records.
3. Apply spreadsheet skills to organize and analyze company data to serve as a key resource in making decisions.
4. Make financially-related business decisions based on appropriate financial analysis.
5. Prepare basic individual tax returns.

### Program Notes



- To be awarded an academic certificate independent of a bachelor's or an associate degree, a student must earn:





## Program Course Requirements

**Certificate Core****15**

Total Credits

- Take the following:
  - [ACCTG201](#) - Financial Accounting (3)
  - [ACCTG202](#) - Managerial Accounting (3)
  - [ACCTG205](#) - Accounting Software (2)
  - [ACCTG233](#) - Spreadsheet Application (1)
  - [ACCTG321](#) - Income Taxation I (3)
  - [BA211](#) - Business Fundamentals (3)

**Grand Total Credits: 15**

## Department

Department of Accounting



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# BYU-Idaho Academic Catalog

## Accounting (Minor)

### Program Description

A group of courses (20-24 credits) designed to encourage focused learning in Accounting, complementary to an integrated standard degree or as an element of an interdisciplinary studies degree.

### Program Code

121

### Program Notes

- No grade less than C- in Minor courses.

### Program Course Requirements

#### Core

12

Total Credits



- Take the following:

- [ACCTG201](#) - Financial Accounting (3)
- [ACCTG202](#) - Managerial Accounting (3)
- [ACCTG301](#) - Intermediate Financial Accounting I (3)
- [ACCTG321](#) - Income Taxation I (3)

#### Electives

12

Total Credits



- Take 12 credit(s) from:

- [ACCTG233](#) - Spreadsheet Application (1)

[ACCTG398R - Auditing \(3\)](#)

- [ACCTG398R - Professional Internship \(3\)](#)
- [ACCTG403 - Advanced Accounting \(3\)](#)
- [ACCTG456 - Accounting Information Systems \(3\)](#)
- [ACCTG499 - Accounting Capstone \(3\)](#)

**Grand Total Credits: 24**

Department

Department of Accounting

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Devotionals



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## Employment

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# BYU-Idaho Academic Catalog

## Accounting (Major: Bachelor-Level)

### Program Description



Graduates of the Accounting program will be prepared to succeed in graduate studies and make immediate contributions in the workforce. Students will participate in a variety of learning experiences with their peers and professionally credentialed faculty to develop the functional knowledge, technical skills, and professionalism necessary to be successful leaders in their homes, the Church, and their profession.

### Program Code

600

### Program Learning Outcomes (PLOs)

1. Professionally communicate in both written and verbal forms.
2. Apply foundational accounting content knowledge to accounting-related problems.
3. Utilize professional skills and behaviors in individual and team settings.
4. Employ current, relevant technology within the accounting profession.

### Program Notes



- To graduate with a Bachelor's degree, a student must earn:
  - grades of C- or higher in major courses





## Program Course Requirements



### General Education

**39**

Total Credits



- Take at least 39 credit(s) to complete one of the following program(s): [GE - BACH](#)

### Core

**46**

Total Credits



- Complete all of the following

- Take the following:
  - [ACCTG201](#) - Financial Accounting (3)
  - [ACCTG202](#) - Managerial Accounting (3)
  - [ACCTG233](#) - Spreadsheet Application (1)
  - [ACCTG275](#) - Accounting Profession Exploration and Orientation (1)
  - [ACCTG301](#) - Intermediate Financial Accounting I (3)
  - [ACCTG302](#) - Intermediate Financial Accounting II (3)
  - [ACCTG321](#) - Income Taxation I (3)
  - [ACCTG333B](#) - Advanced Spreadsheet Application (2)
  - [ACCTG344](#) - Auditing (3)
  - [ACCTG398R](#) - Professional Internship (3)
  - [ACCTG456](#) - Accounting Information Systems (3)
  - [ACCTG499](#) - Accounting Capstone (3)
  - [BUS375](#) - Business Law (3)
  - [ECON150](#) - Economic Principles and Problems-Micro (3)
  - [ECON151](#) - Economic Principles and Problems-Macro (3)
  - [FIN401](#) - Advanced Financial Management (3)

AND

- Take 1 of the following:
  - [MATH221A](#) - Business Statistics (3)
  - [MATH221D](#) - Introductory Statistics with R (3)

### Elective Major Credits

**6**

Total Credits



- Take 2 of the following:
  - [ACCTG312](#) - Cost Accounting (3)

**Component(s)**

Total Credits



- Complete 1 of the following
  - Data Science Certificate
    - Take at least 14 credit(s) to complete one of the following program(s): [C124](#)
    - General Business for Accounting Majors Cluster
    - Take at least 12 credit(s) to complete one of the following program(s): [2101](#)
    - General Economics Cluster
    - Take at least 15 credit(s) to complete one of the following program(s): [2300](#)

**Unspecified Electives**

14



Total Credits

- Take at least 14 credit(s) from any eligible university credits.

In addition to courses meeting the requirements for this program, students can take other courses offered by the university, for which they meet the course eligibility requirements, to bring their total number of credits to the minimum of 120 credits required for graduation. Additional credits may also come from credits received through General Education courses.

**Grand Total Credits: 117 - 120**

Degree

---

Bachelor of Science (BS)

Department

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Department of Accounting



# BYU-Idaho Academic Catalog

## Department of Accounting

[Accounting](#)

Minor

[Accounting](#)

Major: Bachelor-Level

[Accounting Fundamentals](#)

Certificate

[Financial Accounting: for Business Majors](#)

Cluster

[Financial Accounting: for Non-Business Majors](#)

Cluster

[Tax Accounting: Business Majors](#)

Cluster

[Tax Accounting: for Non-Business Majors](#)

Cluster





# BYU-Idaho Academic Catalog

## Animal Health (Cluster)

### Program Description



A cluster of courses (12-15 credits) designed to prepare students in Animal Health, supplemental to a major.

### Program Code

1002

### Program Course Requirements



#### Core Courses

11

Total Credits

- Take the following:
  - [AS125](#) - Career Exploration in Animal Science (1)
  - [AS215](#) - Animal Anatomy and Physiology (3)
  - [AS215L](#) - Animal Anatomy and Physiology Lab (1)
  - [AS234](#) - Veterinary Parasitology (2)
  - [AS315](#) - Animal Health and Diseases (4)

#### Supplemental Courses

3 - 4

Total Credits





- [AS380 - Companion Animal Management \(3\)](#)

**Grand Total Credits: 14 - 15**

Department

Department of Animal and Food Science

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# BYU-Idaho Academic Catalog

## Animal Nutrition (Cluster)

### Program Description



A cluster of courses (12-15 credits) designed to prepare students in Animal Nutrition, supplemental to a major.

### Program Code

1011

### Program Course Requirements



#### Core Courses

14 - 15

Total Credits



- Complete all of the following
  - Take the following:
    - [AGRON330](#) - Forage Crops (3)
    - [AS125](#) - Career Exploration in Animal Science (1)
    - [AS220](#) - Feeds and Nutrition (3)
    - [CHEM105](#) - General Chemistry I (3)
    - [CHEM105L](#) - General Chemistry Laboratory I (1)
  - AND
  - Take 1 of the following:
    - [AS365](#) - Applied Ruminant Nutrition (3)





# BYU-Idaho Academic Catalog

## Animal Reproduction (Cluster)

### Program Description

A cluster of courses (12-15 credits) designed to prepare students in Animal Reproduction, supplemental to a major.

### Program Code

1003

### Program Course Requirements

#### Core Courses

13

Total Credits

- Take the following:
  - [AS125](#) - Career Exploration in Animal Science (1)
  - [AS330](#) - Artificial Insemination (1)
  - [AS330L](#) - Artificial Insemination Lab (1)
  - [AS333](#) - Animal Genetics (3)
  - [AS336](#) - Animal Reproduction (3)
  - [AS430](#) - Applied Reproduction (4)

**Grand Total Credits: 13**





# BYU-Idaho Academic Catalog

## Animal Science (Minor)

### Program Description



The animal science minor is for those students NOT majoring in a current animal science degree but wishing to receive concentrated training which can be coupled with a complementary major.

### Program Code

140

### Program Course Requirements



#### Core

20 - 21

Total Credits



- Complete all of the following
  - Take the following:
    - [AS125](#) - Career Exploration in Animal Science (1)
    - [AS150](#) - Introduction to Animal Science (3)
    - [AS220](#) - Feeds and Nutrition (3)
    - [AS247](#) - Animal Handling and Behavior (3)
    - [AS336](#) - Animal Reproduction (3)
    - [CHEM105](#) - General Chemistry I (3)
    - [CHEM105L](#) - General Chemistry Laboratory I (1)





- [AS380 - Companion Animal Management \(3\)](#)

**Supplemental Courses****5**

Total Credits



- Take 5 credit(s) from:
  - [AS215 - Animal Anatomy and Physiology \(3\)](#)
  - [AS215L - Animal Anatomy and Physiology Lab \(1\)](#)
  - [AS234 - Veterinary Parasitology \(2\)](#)
  - [AS239 - Introduction to Animal Biotechnology \(2\)](#)
  - [AS315 - Animal Health and Diseases \(4\)](#)
  - [AS330 - Artificial Insemination \(1\)](#)
  - [AS330L - Artificial Insemination Lab \(1\)](#)
  - [AS333 - Animal Genetics \(3\)](#)
  - [AS340 - Horse Production \(4\)](#)
  - [AS350 - Small Animal Production \(4\)](#)
  - [AS355 - Principles of Meat Science \(4\)](#)
  - [AS360 - Beef Production \(4\)](#)
  - [AS380 - Companion Animal Management \(3\)](#)

**Grand Total Credits: 25 - 26****Department**

Department of Animal and Food Science





# BYU-Idaho Academic Catalog

## Animal Science (Major: Associate-Level)

### Program Description



The Associate Degree in Animal Science is designed for those students who are not seeking a Bachelor's Degree or are planning on transferring to another institution before completing a Bachelor's Degree. It will fulfill the general education requirements for most other universities to enable transferring easier and will provide a basic foundation in Animal Science that can be enlarged and built upon, if desired.

### Program Code

377

### Program Notes



- To graduate with an associate degree, a student must earn:
  - grades of C- or higher in major courses
  - a 2.0 cumulative GPA
  - a minimum of 60 cumulative credits
- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.

### Program Course Requirements



**Core****26 - 27**

Total Credits



- Complete all of the following
  - Take the following:
    - [AS125](#) - Career Exploration in Animal Science (1)
    - [AS135](#) - Introduction to Meat Products (1)
    - [AS150](#) - Introduction to Animal Science (3)
    - [AS220](#) - Feeds and Nutrition (3)
    - [AS247](#) - Animal Handling and Behavior (3)
    - [AS336](#) - Animal Reproduction (3)
    - [AS398R](#) - Internship (1)
  - AND
  - Take the following:
    - [AS215](#) - Animal Anatomy and Physiology (3)
    - [AS215L](#) - Animal Anatomy and Physiology Lab (1)
    - [CHEM105](#) - General Chemistry I (3)
    - [CHEM105L](#) - General Chemistry Laboratory I (1)
  - AND
  - Take 1 of the following:
    - [AS340](#) - Horse Production (4)
    - [AS350](#) - Small Animal Production (4)
    - [AS360](#) - Beef Production (4)
    - [AS380](#) - Companion Animal Management (3)

**Grand Total Credits: 61 - 62****Degree**

Associate of Science (AS)

**Department**

Department of Animal and Food Science





# BYU-Idaho Academic Catalog

## Animal Science (Major: Associate-Level)

### Program Description



The Associate Degree in Animal Science is designed for those students who are not seeking a Bachelor's Degree or are planning on transferring to another institution before completing a Bachelor's Degree. It will fulfill the general education requirements for most other universities to enable transferring easier and will provide a basic foundation in Animal Science that can be enlarged and built upon, if desired.

### Program Code

377

### Program Notes



- To graduate with an associate degree, a student must earn:
  - grades of C- or higher in major courses
  - a 2.0 cumulative GPA
  - a minimum of 60 cumulative credits
- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.

### Program Course Requirements



**Core****26 - 27**

Total Credits



- Complete all of the following
  - Take the following:
    - [AS125](#) - Career Exploration in Animal Science (1)
    - [AS135](#) - Introduction to Meat Products (1)
    - [AS150](#) - Introduction to Animal Science (3)
    - [AS220](#) - Feeds and Nutrition (3)
    - [AS247](#) - Animal Handling and Behavior (3)
    - [AS336](#) - Animal Reproduction (3)
    - [AS398R](#) - Internship (1)
  - AND
  - Take the following:
    - [AS215](#) - Animal Anatomy and Physiology (3)
    - [AS215L](#) - Animal Anatomy and Physiology Lab (1)
    - [CHEM105](#) - General Chemistry I (3)
    - [CHEM105L](#) - General Chemistry Laboratory I (1)
  - AND
  - Take 1 of the following:
    - [AS340](#) - Horse Production (4)
    - [AS350](#) - Small Animal Production (4)
    - [AS360](#) - Beef Production (4)
    - [AS380](#) - Companion Animal Management (3)

**Grand Total Credits: 61 - 62****Degree**

Associate of Science (AS)

**Department**

Department of Animal and Food Science



# BYU-Idaho Academic Catalog

## Animal Science (Major: Bachelor-Level)

### Program Description



Animal Science is designed to prepare students to work in animal production agriculture, associated animal agribusiness, or to competitively compete for entrance into veterinary school or other related Animal Science graduate programs. The program is based on seven pillars that are considered foundational in Animal Science. Those seven areas are: 1) genetics, 2) reproduction, 3) nutrition, 4) production, 5) behavior, handling and welfare, 6) health and disease, and 7) animal benefit and use. Graduates will be prepared to enter the workforce or continue in graduate programs in a wide variety of options available in these seven areas. Majors choose between three different degree emphases (Animal Agriculture Systems, Animal Science, Pre-Vet/Graduate) to tailor their job knowledge and skills to their desired career goal.

### Program Code

645

### Program Learning Outcomes (PLOs)

1. Demonstrate foundational knowledge and concepts of Animal Science related to the seven pillar areas (genetics; reproduction; nutrition; production; behavior, handling and welfare; health and disease; animal benefit and use).
2. Be able to discuss Animal Science concepts in written and oral formats.
3. Utilize the published scientific literature to solve Animal Science problems.
4. Be able to use industry-applied technology to enhance animal production.
5. Demonstrate an ability to work effectively in diverse teams as both a member and a leader.





- grades of C- or higher in major courses
- a 2.0 cumulative GPA
- a minimum of 120 cumulative credits
- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.

## Program Course Requirements



### General Education

**39**

Total Credits



- Take at least 39 credit(s) to complete one of the following program(s): [GE - BACH](#)

### Core

**21**

Total Credits



- Take the following:

- [AS125](#) - Career Exploration in Animal Science (1)
- [AS150](#) - Introduction to Animal Science (3)
- [AS215](#) - Animal Anatomy and Physiology (3)
- [AS215L](#) - Animal Anatomy and Physiology Lab (1)
- [AS220](#) - Feeds and Nutrition (3)
- [AS398R](#) - Internship (1)
- [AS495](#) - Animal Science Capstone (3)
- [AGBUS210](#) - Agricultural Economics (3)
- [MATH221B](#) - Biostatistics (3)

### Emphasis

**30 - 35**

Total Credits



- Take between 30 and 35 credits from the following types of courses:  
one Emphasis option listed below.

### Unspecified Electives

**25**

Total Credits



- Take at least 25 credit(s) from  
any eligible university credits.

In addition to courses meeting the requirements for this program, students can take other courses offered by the university, for which they meet the course eligibility requirements, to bring their total number of credits to



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## Degree

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Bachelor of Science (BS)

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## Department

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Department of Animal and Food Science

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## Emphasis/Concentration Options

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Animal Agriculture Systems ^

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### Emphasis/Concentration Description

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This emphasis offers a degree path for those seeking employment within animal-based agricultural production systems and industries (e.g., beef, dairy, swine, poultry, etc.). The breadth of training (Animal Science focus with Plant Science and Agribusiness supporting courses) prepares graduates for managerial roles within the animal agricultural sector.

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### Emphasis/Concentration Code

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300

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### Program Notes

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- No grade less than C- in major courses.
- 2.0 cumulative GPA required for graduation.
- Students should utilize general elective credits to take an Excel spreadsheet course (ACCT 233 or BUS 115 or CIT 110) within their first two semesters.
- Students are strongly encouraged to strategically utilize their university general elective credits to enroll in career-relevant emphasis electives.
- Students should consult their faculty advisor in mapping out a degree plan.

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### Emphasis/Concentration Course Requirements

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**Chemistry**

**4**

Total Credits ^

- Complete 1 of the following

Option1:

- Take the following:
  - [CHEM101](#) - Introductory Chemistry (3)
  - [CHEM101L](#) - Introductory Chemistry Lab (1)

Option 2:

- Take the following:
  - [CHEM105](#) - General Chemistry I (3)



- Complete all of the following
  - Take the following:
    - [AGBUS201](#) - Agricultural Financial Accounting (3)
    - [AGBUS347](#) - Agricultural Marketing (3)
    - [AGRON301](#) - Soil Science (3)
    - [APS122](#) - Introduction to Plant Science (3)
    - [APS123](#) - Introduction to Plant Science Laboratory (1)
    - [APS220L](#) - Soils Lab (1)
    - [APS250](#) - Agriculture Leadership and Management (3)
  - AND
  - Take 1 of the following:
    - [AS340](#) - Horse Production (4)
    - [AS350](#) - Small Animal Production (4)
    - [AS360](#) - Beef Production (4)
    - [AS370](#) - Dairy Production (4)

**Emphasis Electives** 9  
Total Credits

- ▲
- Take 9 credit(s) from:
    - [AGBUS310](#) - Agricultural Policy and Trade (3)
    - [AGBUS380](#) - Agribusiness Operations Analysis (3)
    - [AGBUS430](#) - Agricultural Price Analysis (3)
    - [AGBUS435](#) - Agriculture Commodity Marketing (3)
    - [AGBUS440](#) - Agribusiness Finance (3)
    - [AGBUS450](#) - Agriculture Business Management (3)
    - [AGBUS460](#) - Strategic Food and Agribusiness Management (3)
    - [AGRON321](#) - Soil Fertility and Plant Nutrition (4)
    - [AGRON330](#) - Forage Crops (3)
    - [AGTEC110](#) - Introduction to Agriculture Technology (3)
    - [AGTEC220](#) - Agricultural Safety (3)
    - [AGTEC302L](#) - Agricultural Irrigation Lab (1)
    - [AS135](#) - Introduction to Meat Products (1)
    - [AS234](#) - Veterinary Parasitology (2)
    - [AS239](#) - Introduction to Animal Biotechnology (2)
    - [AS247](#) - Animal Handling and Behavior (3)
    - [AS300](#) - Animal Science Seminar (2)
    - [AS315](#) - Animal Health and Diseases (4)
    - [AS330](#) - Artificial Insemination (1)
    - [AS330L](#) - Artificial Insemination Lab (1)

[AS150 - Applied Reproduction \(3\)](#)

- [AS465 - Processed Meats \(3\)](#)
- [BIO225 - Range Management \(3\)](#)
- [COMM102 - Public Speaking \(3\)](#)
- [COMM273 - Professional Presentations \(3\)](#)
- [ECON151 - Economic Principles and Problems-Macro \(3\)](#)
- [ECON255 - Financial Analytics \(3\)](#)

**Grand Total Credits: 34**Animal Science Pre-Vet/Graduate 

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- grades of C- or higher in major courses
- a 2.0 cumulative GPA
- a minimum of 120 cumulative credits
- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.

## Program Course Requirements



### General Education

**39**

Total Credits



### Core

**21**

Total Credits



### Emphasis

**30 - 35**

Total Credits



### Unspecified Electives

**25**

Total Credits

**Grand Total Credits: 115 - 120**

## Degree

---

Bachelor of Science (BS)

## Department

---

Department of Animal and Food Science

## Emphasis/Concentration Options

Animal Agriculture Systems



Animal Science



## Emphasis/Concentration Description

---

This emphasis provides focused preparation in traditional Animal Science principles (genetics, nutrition, reproduction, health, handling/welfare, production, benefit/use), and prepares graduates for employment in



## Program Notes

- No grade less than C- in Major courses.
- 2.0 cumulative GPA required for graduation.
- Students are strongly encouraged to strategically utilize their university general elective credits to enroll in career-relevant emphasis electives.
- Students should consult their faculty advisor in mapping out a degree plan.

## Emphasis/Concentration Course Requirements

### Chemistry

4

Total Credits



- Complete 1 of the following

Option 1:

- Take the following:
  - [CHEM101](#) - Introductory Chemistry (3)
  - [CHEM101L](#) - Introductory Chemistry Lab (1)

Option 2:

- Take the following:
  - [CHEM105](#) - General Chemistry I (3)
  - [CHEM105L](#) - General Chemistry Laboratory I (1)

### Emphasis Core

30 - 31

Total Credits



- Complete all of the following

- Take the following:

- [AS135](#) - Introduction to Meat Products (1)
- [AS247](#) - Animal Handling and Behavior (3)
- [AS315](#) - Animal Health and Diseases (4)
- [AS333](#) - Animal Genetics (3)
- [AS336](#) - Animal Reproduction (3)

AND

- Take 1 of the following:

- [AS340](#) - Horse Production (4)
- [AS350](#) - Small Animal Production (4)
- [AS360](#) - Beef Production (4)
- [AS370](#) - Dairy Production (4)
- [AS380](#) - Companion Animal Management (3)

AND

- Take 13 credit(s) from:

[AS330 - Artificial Insemination](#) ▾

- [AS330L](#) - Artificial Insemination Lab (1)
- [AS355](#) - Principles of Meat Science (4)
- [AS365](#) - Applied Ruminant Nutrition (3)
- [AS425](#) - Advanced Animal Nutrition (4)
- [AS430](#) - Applied Reproduction (4)
- [AS465](#) - Processed Meats (3)
- [AS490R](#) - Research Practicum (1 - 3)
- [BIO180](#) - Introduction to Biology I (3)
- [BIO180L](#) - Introduction to Biology I Lab (1)
- [BIO181](#) - Introduction to Biology II (3)
- [BIO181L](#) - Introduction to Biology II Lab (1)
- [BIO225](#) - Range Management (3)
- [BIO375](#) - Genetics and Molecular Biology (3)

**Grand Total Credits: 34 - 35**

Pre-Vet/Graduate



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## Emphasis/Concentration Code

302

## Program Notes

- No grade less than C- in Major courses.
- 2.0 cumulative GPA required for graduation.
- It is strongly recommended that students work with their faculty advisers. The designated degree courses are the most common prerequisites for application to graduate and professional schools. Please check with the individual graduate and professional programs to which you will apply, since each may have additional or different requirements. Some required preparatory courses may need to be taken as general electives to meet professional/graduate school entrance requirements.

## Emphasis/Concentration Course Requirements

### Chemistry

4

Total Credits



- Take the following:
  - [CHEM105](#) - General Chemistry I (3)
  - [CHEM105L](#) - General Chemistry Laboratory I (1)

### Emphasis Core

26 - 27

Total Credits



- Complete all of the following
  - Take 23 credit(s) from:
    - [BIO180](#) - Introduction to Biology I (3)
    - [BIO180L](#) - Introduction to Biology I Lab (1)
    - [BIO181](#) - Introduction to Biology II (3)
    - [BIO181L](#) - Introduction to Biology II Lab (1)
    - [BIO375](#) - Genetics and Molecular Biology (3)
    - [CHEM106](#) - General Chemistry II (3)
    - [CHEM106L](#) - General Chemistry Laboratory II (1)
    - [CHEM351](#) - Organic Chemistry I (3)
    - [CHEM351L](#) - Organic Chemistry Laboratory I (1)
    - [PH105](#) - Introductory Applied Physics I (4)

AND

- Take 1 of the following:
  - [BIO385](#) - Principles of Biochemistry (4)



# BYU-Idaho Academic Catalog

## Beef Production (Cluster)

### Program Description

A cluster of courses (12-15 credits) designed to prepare students in Beef Production, supplemental to a major.

### Program Code

1012

### Program Course Requirements

#### Core Courses

14

Total Credits

- Take the following:
  - [AS220](#) - Feeds and Nutrition (3)
  - [AS336](#) - Animal Reproduction (3)
  - [AS360](#) - Beef Production (4)
  - [CHEM105](#) - General Chemistry I (3)
  - [CHEM105L](#) - General Chemistry Laboratory I (1)

**Grand Total Credits: 14**





# BYU-Idaho Academic Catalog

## Department of Animal and Food Science

[Animal Health](#)

Cluster

[Animal Nutrition](#)

Cluster

[Animal Reproduction](#)

Cluster

[Animal Science](#)

Minor

[Animal Science](#)

Major: Bachelor-Level

- [Animal Agriculture Systems](#)

- [Animal Science](#)

- [Pre-Vet/Graduate](#)

[Animal Science](#)

Major: Associate-Level

[Beef Production](#)

Cluster

[Food and Nutrition](#)

Cluster

[Food Science](#)

Cluster

[Food Science](#)





- Management
- Nutrition/Dietetics
- Science
- Technology

[Human Nutrition](#)  
Cluster

[Nutrition](#)  
Minor

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# BYU-Idaho Academic Catalog

## Department of Animal and Food Science

[Animal Health](#)

Cluster

[Animal Nutrition](#)

Cluster

[Animal Reproduction](#)

Cluster

[Animal Science](#)

Minor

[Animal Science](#)

Major: Bachelor-Level

- [Animal Agriculture Systems](#)
- [Animal Science](#)
- [Pre-Vet/Graduate](#)

[Animal Science](#)

Major: Associate-Level

[Beef Production](#)

Cluster

[Food and Nutrition](#)

Cluster

[Food Science](#)

Cluster

[Food Science](#)





- Management
- Nutrition/Dietetics
- Science
- Technology

[Human Nutrition](#)  
Cluster

[Nutrition](#)  
Minor

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# BYU-Idaho Academic Catalog

## Agriculture Technology (Cluster)

### Program Description



A cluster of courses (12-15 credits) designed to prepare students in Agricultural Technology, supplemental to a major.

### Program Code

1507

### Program Course Requirements



#### Core Courses

15

Total Credits



- Take 15 credit(s) from:
  - [AGTEC110](#) - Introduction to Agriculture Technology (3)
  - [AGTEC220](#) - Agricultural Safety (3)
  - [AGTEC230](#) - Sensors and Electrical Systems (2)
  - [AGTEC301](#) - Engine and Tractor Power (3)
  - [AGTEC330](#) - Processing and Handling Systems (3)
  - [AGTEC360](#) - Fluid Power Technology (3)
  - [AGTEC465](#) - Machinery and Power Management (3)



**Grand Total Credits: 15**



# BYU-Idaho Academic Catalog

## Agronomy (Cluster)

### Program Description

A cluster of courses (12-15 credits) designed to prepare students in Agronomy, supplemental to a major.

### Program Code

1508

### Program Course Requirements

#### Core Courses

9

Total Credits

- Take the following:
  - [AGRON301](#) - Soil Science (3)
  - [APS122](#) - Introduction to Plant Science (3)
  - [CHEM101](#) - Introductory Chemistry (3)

#### Supplemental Courses

3

Total Credits

- Take 3 credit(s) from:
  - [AGRON330](#) - Forage Crops (3)





# BYU-Idaho Academic Catalog

## Crop Protection (Cluster)

### Program Description

A cluster of courses (12-15 credits) designed to prepare students in Crop Production, supplemental to a major.

### Program Code

1505

### Program Course Requirements

#### Core Courses

14

Total Credits

- Complete all of the following
  - Take the following:
    - [APS122](#) - Introduction to Plant Science (3)
    - [APS220](#) - Horticultural Soils (3)

AND

- Take 8 credit(s) from:
  - [AGRON445](#) - Crop Advisor Certification (2)
  - [AGRON460](#) - Plant Pathology (3)
  - [APS412](#) - Integrated Pest Management (2)
  - [APS462](#) - Crop Insect Management (2)





# BYU-Idaho Academic Catalog

## Department of Applied Plant Science

[Agriculture Technology](#)  
Cluster

[Agronomy](#)  
Cluster

[Crop Protection](#)  
Cluster

[Event Planning](#)  
Cluster

[Floral Design](#)  
Major: Associate-Level

[Floral Design](#)  
Certificate

[GIS in Agriculture and Natural Resources](#)  
Cluster

[Horticulture](#)  
Cluster

[Horticulture](#)  
Major: Bachelor-Level

[Horticulture](#)  
Minor

[Horticulture](#)  
Major: Associate-Level

[Plant Science and Technology](#)





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Soil Management  
Cluster

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# BYU-Idaho Academic Catalog

## 2-D Studies (Cluster)

### Program Description

A cluster of courses (12-15 credits) designed to prepare students in 2-D Studies, supplemental to a major.

### Program Code

5200

### Program Course Requirements

#### Core Courses

6

Total Credits

- Take the following:
  - [ART107](#) - Design and Color (3)
  - [ART110](#) - Drawing I (3)

#### Supplemental Courses

6

Total Credits

- Take 2 of the following:
  - [ART210](#) - Drawing II (3)
  - [ART250](#) - Oil Painting I (3)





# BYU-Idaho Academic Catalog

## 3-D Studies (Cluster)

### Program Description

A cluster of courses (12-15 credits) designed to prepare students in 3-D Studies, supplemental to a major.

### Program Code

5201

### Program Course Requirements

#### Core Courses

15

Total Credits

- Take the following:
  - [ART110](#) - Drawing I (3)
  - [ART220](#) - Ceramics I (3)
  - [ART280](#) - Sculpture I (3)
  - [ART320](#) - Ceramics II (3)
  - [ART380R](#) - Sculpture Medium and Methodology (3)

**Grand Total Credits: 15**





# BYU-Idaho Academic Catalog

## Art Education Composite (Major: Bachelor-Level)

### Program Description



The Art Education Composite Degree is designed to prepare students to earn Idaho teacher certification with an endorsement in Art in grades K-12. Students with this major can have an emphasis in 2D Studies, 3D Studies, Photography, Graphic Design, or Illustration. This major does not require a minor.

### Program Code

862

### Program Learning Outcomes (PLOs)

1. Demonstrate knowledge of Art History and contemporary art, as well as a variety of media, techniques and processes for creating art.
2. Demonstrate the ability to create art in a variety of media through class projects as well as in their own personal art production.
3. Develop curriculum and lesson plans appropriate for the secondary art classroom.
4. Demonstrate the ability to plan for instruction, deliver art content, assess student learning, and manage a classroom.
5. Demonstrate a high level of professionalism and commitment to the field of Art Education through teaching demonstrations, as well as in their conduct in class.

### Program Notes





- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.

## Program Course Requirements



### General Education

33

Total Credits



- Take at least 33 credit(s) to complete one of the following program(s): [GE - TEACH](#)

### Education Core

30

Total Credits



- Take the following:

- [EDCOR200](#) - Teaching as a Profession (2)
- [EDCOR310](#) - Educational Psychology and Human Development (3)
- [EDCOR364](#) - Literacy Foundations (2)
- [EDCOR320](#) - Assessment Methods and Analysis (2)
- [EDCOR325](#) - Instructional Methods and Technology (3)
- [EDCOR480](#) - Management and Professional Ethics (2)
- [EDCOR464](#) - Content Area Reading and Writing (3)
- [EDCOR492](#) - Student Teaching (10)
- [EDCOR340](#) - Diverse and Exceptional Students (3)

### Core

35

Total Credits



- Complete all of the following

- Take the following:
  - [ART106](#) - Freshman Art Orientation Seminar (.5)
  - [ART107](#) - Design and Color (3)
  - [ART110](#) - Drawing I (3)
  - [ART125](#) - Adobe CC Basics (3)
  - [ART201](#) - Art History I (3)
  - [ART202](#) - Art History II (3)
  - [ART220](#) - Ceramics I (3)
- Take 1.5 credit(s) from:
  - [ART297R](#) - Art Seminar (0.5)
- Take the following:
  - [ART404](#) - Modern and Contemporary Art and Theory (3)



- Take the following:
- [ART313](#) - Art Education Theory and Contemporary Practice (3)
  - [ART314](#) - Secondary Art Methods I (3)
  - [ART316](#) - Elementary Art Methods (2)
  - [ART414](#) - Secondary Art Methods II (3)

**Emphasis****21**

Total Credits



- Take at least 21 credit(s) from one of the Emphasis options below.

**Unspecified Electives****1**

Total Credits



- Take at least 1 credit(s) from any eligible university credits.

In addition to courses meeting the requirements for this program, students can take other courses offered by the university, for which they meet the course eligibility requirements, to bring their total number of credits to the minimum of 120 credits required for graduation. Additional credits may also come from credits received through General Education courses.

**Grand Total Credits: 120**

## Degree

Bachelor of Arts (BA)

## Department

Department of Art

## Emphasis/Concentration Options

Art Education Drawing and Painting



## Emphasis/Concentration Description

This emphasis will prepare a teacher candidate to teach in a Drawing and Painting program in addition to other general art teaching j

## Emphasis/Concentration Code

242



- Take the following:
  - [ART142](#) - Media Experimentation (3)
  - [ART210](#) - Drawing II (3)
  - [ART250](#) - Oil Painting I (3)
  - [ART251R](#) - Watercolor (3)

**Emphasis Core 2****3**

Total Credits



- Take 1 of the following:
  - [ART310](#) - Expressive Drawing (3)
  - [ART350R](#) - Painting II (3)
  - [ART357R](#) - Painting Methodologies (3)

**Emphasis Core 3****6**

Total Credits



- Take the following:
  - [ART160](#) - Photography I (3)
  - [ART320](#) - Ceramics II (3)

**Grand Total Credits: 21**

Art Education Graphic Design



Art Education Illustration



Art Education Photography



Art Education Three Dimensional Studies





- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.

## Program Course Requirements



### General Education

33



Total Credits

### Education Core

30



Total Credits

### Core

35



Total Credits

### Emphasis

21



Total Credits

### Unspecified Electives

1



Total Credits

**Grand Total Credits: 120**

## Degree

Bachelor of Arts (BA)

## Department

Department of Art

## Emphasis/Concentration Options

[Art Education Drawing and Painting](#)[Art Education Graphic Design](#)

### Emphasis/Concentration Description

This emphasis will prepare a teacher candidate to teach in a Graphic Design program in addition to other general art teaching jobs.

**Emphasis Core****9**

Total Credits



- Take the following:
  - [ART130](#) - Introduction to Graphic Design (3)
  - [ART230](#) - Typography I (3)
  - [ART235](#) - Graphic Design (3)

**Emphasis Core 2****3**

Total Credits



- Take 1 of the following:
  - [ART331R](#) - Information Design (3)
  - [ART333R](#) - Surface and Pattern Design (3)
  - [ART334R](#) - Typography II (3)
  - [ART335R](#) - Identity Design (3)
  - [ART431R](#) - User Experience Design (3)
  - [ART435R](#) - Three-Dimensional Graphic Design (3)

**Emphasis Core 3****9**

Total Credits



- Complete all of the following
  - Take the following:
    - [ART160](#) - Photography I (3)
    - [ART320](#) - Ceramics II (3)
  - AND
  - Take 1 of the following:
    - [ART142](#) - Media Experimentation (3)
    - [ART250](#) - Oil Painting I (3)
    - [ART251R](#) - Watercolor (3)

**Grand Total Credits: 21**

Art Education Illustration



Art Education Photography





## Emphasis/Concentration Code

246

## Emphasis/Concentration Course Requirements

**Emphasis Core****12**

Total Credits



- Take the following:
  - [ART142](#) - Media Experimentation (3)
  - [ART217](#) - Design and Color II (3)
  - [ART240](#) - Introduction to Illustration (3)
  - [ART311](#) - Layout and Story (3)

**Emphasis Core 2****3**

Total Credits



- Take 1 of the following:
  - [ART250](#) - Oil Painting I (3)
  - [ART251R](#) - Watercolor (3)

**Emphasis Core 3****6**

Total Credits



- Take the following:
  - [ART160](#) - Photography I (3)
  - [ART320](#) - Ceramics II (3)

**Grand Total Credits: 21**

Art Education Photography



Art Education Three Dimensional Studies





This emphasis will prepare a teacher candidate to teach in a Photography program in addition to other general art teaching jobs.

#### Emphasis/Concentration Code

243

#### Emphasis/Concentration Course Requirements

##### Emphasis Core

12

Total Credits

- Take the following:
  - [ART160](#) - Photography I (3)
  - [ART260](#) - Intermediate Photography (3)
  - [ART361](#) - Advanced Photography (3)
  - [ART362](#) - Introduction to Studio Lighting (3)

##### Emphasis Core 2

3

Total Credits

- Take 1 of the following:
  - [ART364R](#) - Advanced Black/White Photography (3)
  - [ART366R](#) - Commercial Photography (3)
  - [ART460R](#) - Portrait Photography (3)
  - [ART462R](#) - Historic Photographic Processes (3)
  - [ART463R](#) - Documentary Photography (3)

##### Emphasis Core 3

6

Total Credits

- Complete all of the following
  - Take 1 of the following:
    - [ART142](#) - Media Experimentation (3)
    - [ART250](#) - Oil Painting I (3)
    - [ART251R](#) - Watercolor (3)
  - AND
  - Take the following:
    - [ART320](#) - Ceramics II (3)

**Grand Total Credits: 21**



### Emphasis/Concentration Description

This emphasis will prepare a teacher candidate to teach in a Three Dimensional Studies program in addition to other general art teaching jobs.

### Emphasis/Concentration Code

245

### Emphasis/Concentration Course Requirements

#### Emphasis Core

15

Total Credits

- Take the following:
  - [ART280](#) - Sculpture I (3)
  - [ART320](#) - Ceramics II (3)
  - [ART380R](#) - Sculpture Medium and Methodology (3)
  - [ART420R](#) - Ceramics III (3)
  - [ART480R](#) - Figure Sculpture (3)

#### Emphasis Core 2

3

Total Credits

- Take 1 of the following:
  - [ART142](#) - Media Experimentation (3)
  - [ART250](#) - Oil Painting I (3)
  - [ART251R](#) - Watercolor (3)

#### Emphasis Core 3

3

Total Credits

- Take the following:
  - [ART160](#) - Photography I (3)

**Grand Total Credits: 21**





# BYU-Idaho Academic Catalog

## Art Fundamentals (Cluster)

### Program Description



This cluster of courses helps students develop fundamental skills and knowledge in Art. This cluster will serve as a foundational building block for each of our new stackable Art Degrees including a major, minor or concentration in Art.

### Program Code

5207

### Program Learning Outcomes (PLOs)

1. Demonstrate basic visual composition skill using the principles of design and color (3 - Applying).
2. Demonstrate basic drawing skill (3 - Applying).
3. Identify career paths that our various art degrees can lead to (4 - Analyzing).
4. Analyze works of art in terms of stylistic characteristics, iconography, social-historical influences, and elements & principles of design (4 - Analyzing).

### Program Course Requirements



#### Core Courses

12.5

Total Credits





- [ART201](#) - Art History I (3)
- [ART202](#) - Art History II (3)

**Grand Total Credits: 12.5**

Department

Department of Art

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# BYU-Idaho Academic Catalog

## Art History (Cluster)

### Program Description

### Program Code

5205

### Program Course Requirements

#### Core Courses

6

Total Credits

- Take the following:
  - [ART201](#) - Art History I (3)
  - [ART202](#) - Art History II (3)

#### Supplemental Courses

6

Total Credits

- Take 2 of the following:
  - [ART301](#) - Art of Ancient Near East and Egypt (3)
  - [ART302](#) - Greek and Roman Art (3)
  - [ART303](#) - Medieval Art (3)



[ART103 - Nineteenth-Century Art \(3\)](#)

- o [ART404 - Modern and Contemporary Art and Theory \(3\)](#)

**Grand Total Credits: 12**

Department

Department of Art

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# BYU-Idaho Academic Catalog

## Art History (Minor)

### Program Description



The discipline of Art History is the study of visual culture within its social and historical contexts. A minor in Art History provides students with a solid foundation in the history of western art and architecture from the ancient world to the present. Students learn not only how to analyze works of art, but also to understand and interpret them in relation to their historical context. With its broad emphasis on culture and history and its focus on writing, analysis, and research, Art History is an excellent field of study for students seeking flexible but rigorous training for a variety of careers. A minor in Art History not only prepares students to work in arts-related fields, but also fosters the kinds of skills necessary in any profession involving visual culture, historical and cultural understanding, critical analysis, persuasive argumentation, thorough research, and effective writing.

### Program Code

256

### Program Learning Outcomes (PLOs)

1. Discuss key works of art in terms of stylistic characteristics, iconography, and social-historical influences.
2. Analyze formal properties of major works of art (such as medium, handling of materials, and elements and principles of design).
3. Make personal and spiritual connections to important artworks from the past.

### Program Notes



**Core****24**

Total Credits



- Complete all of the following
  - Take the following:
    - [ART201](#) - Art History I (3)
    - [ART202](#) - Art History II (3)
  - AND
  - Take 6 of the following:
    - [ART301](#) - Art of Ancient Near East and Egypt (3)
    - [ART302](#) - Greek and Roman Art (3)
    - [ART303](#) - Medieval Art (3)
    - [ART306](#) - History of Design and Illustration (3)
    - [ART307](#) - History of Photography (3)
    - [ART401](#) - Renaissance Art (3)
    - [ART402](#) - Baroque Art (3)
    - [ART403](#) - Nineteenth Century Art (3)
    - [ART404](#) - Modern and Contemporary Art and Theory (3)

**Grand Total Credits: 24**

Department

Department of Art



# BYU-Idaho Academic Catalog

## Department of Art

[2-D Studies](#)

Cluster

[3-D Studies](#)

Cluster

[Art Education Composite](#)

Major: Bachelor-Level

- [Art Education Drawing and Painting](#)
- [Art Education Graphic Design](#)
- [Art Education Illustration](#)
- [Art Education Photography](#)
- [Art Education Three Dimensional Studies](#)

[Art Fundamentals](#)

Cluster

[Art History](#)

Cluster

[Art History](#)

Minor

[Fine Art](#)

Minor

[Fine Art](#)

Major: Bachelor-Level

- [2D](#)





- Branding and Identity
- Surface and Pattern Design
- UX/UI Emphasis

#### [Graphic Design](#)

Minor

#### [Graphic Design Fundamentals](#)

Certificate

#### [Illustration](#)

Minor

#### [Illustration](#)

Major: Bachelor-Level

- Entertainment Design
- Publishing

#### [Photography](#)

Minor

#### [Photography](#)

Cluster

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# BYU-Idaho Academic Catalog

## Allied Health (Major: Associate-Level)

### Program Description



The Allied Health Associates of Science degree is designed to prepare students for entry into certificated programs of study in allied health professions. The associate degree allows students to complete most, if not all needed prerequisites for programs in nursing, dental hygiene, radiographic science, sonography, medical assisting, or physical therapy assisting. It should be emphasized that the Allied Health Associate degree does not certify or license a student in any of these fields, but does allow them to complete the required and often extensive list of prerequisite courses needed to apply to such programs. It further allows prerequisite credits to be counted as program applicable under the federal guidelines for financial aid disbursements.

After completing prerequisites students may apply to programs in nursing and PTA at BYU-Idaho. Alternatively, they are eligible to apply for programs outside of the University in these same fields or others. Having an associates degree greatly simplifies the transfer process.

### Program Code

369

### Program Learning Outcomes (PLOs)

1. Identify career opportunities in the Allied Healthcare sector and describe competitive routes of preparation and certification in these careers.
2. Demonstrate a fundamental knowledge of human anatomical structures.
3. Demonstrate a fundamental knowledge of physiology and solve problems related to the maintenance of homeostasis in multiple physiological systems.





- To graduate with an associate degree, a student must earn:
  - grades of C- or higher in major courses
  - a 2.0 cumulative GPA
  - a minimum of 60 cumulative credits
- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.
- Unselected courses from this list should be taken to fill General Education requirements.
- Prerequisites can vary widely between allied health careers and even different schools offering the same certificated program.
- Students should consult program prerequisites for their selected allied health program to select appropriate courses from this list of electives.

## Program Course Requirements



### General Education

32

Total Credits



- Take at least 32 credit(s) to complete one of the following program(s): [GE - TRF ASSOC](#)

### Introductory Core

12

Total Credits



- Take the following:

- [BIO264](#) - Human Anatomy and Physiology I (3)
- [BIO264L](#) - Human Anatomy and Physiology I Lab (1)
- [BIO265](#) - Human Anatomy and Physiology II (3)
- [BIO265L](#) - Human Anatomy and Physiology II Lab (1)
- [NURS105](#) - Introduction to Nursing (1)
- [PSYCH201](#) - Developmental Psychology Lifespan (3)

### Core

6 - 8

Total Credits



- Complete 2 of the following

Option 1:

- Take the following:
  - [CHEM101](#) - Introductory Chemistry (3)
  - [CHEM101L](#) - Introductory Chemistry Lab (1)

Option 2:

- Take the following:



Option 4:

- Take the following:
  - [NUTR150](#) - Essentials of Human Nutrition (3)

Option 5:

- Take the following:
  - [PSYCH111](#) - General Psychology (3)

**Elective Major Credits****9**

Total Credits



- Take 9 credit(s) from:
  - [BIO101](#) - Introductory Biology for Allied Health (3)
  - [BIO180L](#) - Introduction to Biology I Lab (1)
  - [BIO221](#) - General Microbiology (3)
  - [BIO222](#) - General Microbiology Lab (1)
  - [BIO381](#) - Pathophysiology (3)
  - [CHEM250](#) - Introductory Organic and Biochemistry (3)
  - [CHEM250L](#) - Introductory Organic and Biochemistry Lab (1)
  - [COMM102](#) - Public Speaking (3)
  - [HCA280](#) - Medical Terminology (2)
  - [HRHP359](#) - Introduction to Kinesiology and Biomechanics (3)
  - [PH101](#) - Fundamentals of Physics (3)
  - [PSYCH342](#) - Abnormal Psychology (3)
  - [SOC111](#) - Introduction to Sociology (3)

**Unspecified Electives****1**

Total Credits



- Take at least 1 credit(s) from any eligible University credits.

In addition to courses meeting the requirements for this program, students can take other courses offered by the university, for which they meet the course eligibility requirements, to bring their total number of credits to the minimum of 60 credits required for graduation.

**Grand Total Credits: 60 - 62**

Degree

Associate of Science (AS)

Department

Department of Biology



# BYU-Idaho Academic Catalog

## Biological Illustration (Cluster)

### Program Description

A cluster of courses (12-15 credits) designed to prepare students in Biological Illustration, supplemental to a major.

### Program Code

1104

### Program Course Requirements

#### Core Courses

8

Total Credits

- Take the following:
  - [BIO208](#) - Introduction to Plant Biology (4)
  - [BIO460](#) - Human Anatomy with Lab (4)

#### Supplemental Courses

7

Total Credits

- Take 7 credit(s) from:
  - [BIO210](#) - Plant Systematics (3)
  - [BIO221](#) - General Microbiology (3)



# BYU-Idaho Academic Catalog

## Biology Education (Major: Bachelor-Level)

### Program Description



The Biology Education Major at BYU-Idaho requires completion of specific coursework in Biology, BYU-Idaho General Education classes, and Education classes needed for certification as secondary education teacher in the state of Idaho (Idaho certification qualifies graduates to teach in 44 states). The Biology Education major at BYU-Idaho also requires the completion of a discipline specific Education Minor. Students who graduate from this program are eligible for teacher certification in biology and the other discipline in which they have their minor.

### Program Code

800

### Program Learning Outcomes (PLOs)

1. Develop a proficient level of understanding of foundational teaching principles through the education core curriculum.
2. Understand the central concepts of the nature and impact of science and engineering.
3. Understand the central concepts of cell structure and function.
4. Understand the central concepts of genetics and evolution.
5. Understand the central concepts of the diversity of life and organismal biology.
6. Understand the central concepts of ecology.
7. Understand the central concepts of scientific inquiry.
8. Effectively use scientific inquiry in teaching others about the core concepts of biology.



## Program Notes



- To graduate with a Bachelor's degree, a student must earn:
  - grades of C- or higher in major courses
  - a 2.0 cumulative GPA
  - a minimum of 120 cumulative credits
- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.
- No double counting of major courses.
- Courses may have prerequisites not in the Core Courses. Refer to the catalog for descriptions.
- Once you have completed 24 university credit hours, a hold will be placed on your registration until you speak with the Biology Program Director.

## Program Course Requirements



### General Education

**33**

Total Credits



- Take at least 33 credit(s) to complete one of the following program(s): [GE - TEACH](#)

### Education Core

**30**

Total Credits



- Take the following:
  - [EDCOR200](#) - Teaching as a Profession (2)
  - [EDCOR310](#) - Educational Psychology and Human Development (3)
  - [EDCOR364](#) - Literacy Foundations (2)
  - [EDCOR320](#) - Assessment Methods and Analysis (2)
  - [EDCOR325](#) - Instructional Methods and Technology (3)
  - [EDCOR480](#) - Management and Professional Ethics (2)
  - [EDCOR464](#) - Content Area Reading and Writing (3)
  - [EDCOR492](#) - Student Teaching (10)
  - [EDCOR340](#) - Diverse and Exceptional Students (3)

### Core

**37**

Total Credits



- Take the following:
  - [BIO180](#) - Introduction to Biology I (3)



- [BIO250 - Essentials of Human Anatomy and Physiology](#) (0)

- o [BIO302 - Ecology I](#) (4)
- o [BIO375 - Genetics and Molecular Biology](#) (3)
- o [BIO376 - Cell and Molecular Biology](#) (3)
- o [BIO378 - Biology Laboratory Teaching Methods](#) (2)
- o [BIO475 - Evolutionary Science](#) (3)
- o [SCIED205 - Science Teaching Principles](#) (2)
- o [SCIED405 - Science Teaching Methods](#) (4)

**Component(s)** **20 - 24**  
Total Credits



- Complete 1 of the following
  - Natural Science Education Minor
    - o Take at least 24 credit(s) to complete one of the following program(s): [130](#)
  - Physics Education Minor
    - o Take at least 20 credit(s) to complete one of the following program(s): [178](#)
  - Physical Science Education Minor
    - o Take at least 20 credit(s) to complete one of the following program(s): [182](#)

**Grand Total Credits: 120 - 124**

Degree

Bachelor of Science (BS)

Department

Department of Biology

# BYU-Idaho Academic Catalog

## Biology Education (Minor)

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### Program Description

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▼

### Program Code

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173

### Program Notes

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### Program Course Requirements

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**Core**

**22**

Total Credits

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- Take the following:
  - [BIO180](#) - Introduction to Biology I (3)
  - [BIO180L](#) - Introduction to Biology I Lab (1)
  - [BIO181](#) - Introduction to Biology II (3)
  - [BIO181L](#) - Introduction to Biology II Lab (1)



# BYU-Idaho Academic Catalog

## Biology (Major: Bachelor-Level)

### Program Description



The biology degree provides a solid foundation in biology. It is designed to prepare students for professional programs in medicine, dentistry, optometry, podiatry, physical/occupational therapy, etc., or graduate programs in botany, ecology, natural resources, biotechnology, microbiology, neurobiology, etc. In addition, the degree provides preparation for those students seeking employment after completing a bachelors degree. Students majoring in Biology select one of the following emphases depending on their interests and career goals.

### Program Code

700

### Program Learning Outcomes (PLOs)

1. Demonstrate basic knowledge of the fundamental concepts of biology history, cell/molecular structure and gene function, genetics, evolution, ecology and diversity of life.
2. Professionally address and discuss scientific topics in a variety of mediums.
3. Solve problems; read, analyze and interpret scientific data and literature; design ways to test hypotheses.
4. As appropriate for their degree, demonstrate the ability to use state-of-the-art instrumentation to conduct biological research, interpret statistics or understand and use taxonomy.
5. Obtain entry-level positions in industry or secure acceptance into graduate and professional programs.





- grades of C- or higher in major courses
- a 2.0 cumulative GPA
- a minimum of 120 cumulative credits
- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.

## Program Course Requirements



### General Education

**39**

Total Credits



- Take at least 39 credit(s) to complete one of the following program(s): [GE - BACH](#)

### Introductory Core

**13**

Total Credits



NOTE: Take these courses during your first two semesters.

- Complete all of the following
  - Take the following:
    - [BIO199](#) - Biology Orientation (1)
  - AND
  - Take the following:
    - [BIO180](#) - Introduction to Biology I (3)
    - [BIO180L](#) - Introduction to Biology I Lab (1)
    - [CHEM105](#) - General Chemistry I (3)
    - [CHEM105L](#) - General Chemistry Laboratory I (1)
    - [CHEM106](#) - General Chemistry II (3)
    - [CHEM106L](#) - General Chemistry Laboratory II (1)

### Core

**17 - 20**

Total Credits



- Complete all of the following

Core A

- Take the following:
  - [BIO375](#) - Genetics and Molecular Biology (3)
  - [BIO475](#) - Evolutionary Science (3)
  - [MATH221B](#) - Biostatistics (3)

Core B

- Take 1 of the following:
  - [BIO398](#) - Occupational Internship (1 - 4)



- [BIO181L](#) - Introduction to Biology II Lab (1)
- [BIO377](#) - Techniques in Biochemistry Molecular Biology (3)

**Emphasis****21 - 25**

Total Credits



- Take between 21 and 25 credits from the following types of courses:  
one Emphasis option listed below.

**Unspecified Electives****23**

Total Credits



- Take at least 23 credit(s) from  
any eligible university credits.

In addition to courses meeting the requirements for this program, students can take other courses offered by the university, for which they meet the course eligibility requirements, to bring their total number of credits to the minimum of 120 credits required for graduation. Additional credits may also come from credits received through General Education courses.

**Grand Total Credits: 113 - 120****Degree**

Bachelor of Science (BS)

**Department**

Department of Biology

**Emphasis/Concentration Options**

Applied Lab Science

**Emphasis/Concentration Description**

Applied Lab Science prepares students with a broad background in biological and chemical sciences. The combination of courses in molecular biology, microbiology, and human physiology are particularly suited to applications in a clinical laboratory setting. Clinical or medical laboratories operate in hospitals, clinics, or independent sites where they develop, perform, and analyze laboratory tests used to diagnose human diseases and disorders. Work in a clinical/medical laboratory typically requires additional course work and certification that is not available at BYU-Idaho. However, this emphasis does prepare students with most of the prerequisite courses to apply for entry into a Medical Laboratory Science program at another institution. A collaboration with Idaho State University (ISU) allows students in the Applied lab Science to transfer to ISU in their final year and complete their last 38 credits (including internship) of Medical Lab Science specific coursework at one of three locations in southern Idaho. Application and acceptance into ISU and the ISU MLS program are required. Alternatively, students can complete their last year of course work at BYU-Idaho and be prepared for a variety of



230

## Emphasis/Concentration Course Requirements

**Emphasis Core****4**

Total Credits



- Complete 1 of the following

Option 1:

- Take the following:
  - [BIO221](#) - General Microbiology (3)
  - [BIO222](#) - General Microbiology Lab (1)

Option 2:

- Take the following:
  - [BIO321](#) - Biology of Microorganisms (4)

**Emphasis Core 2****17**

Total Credits



- Take the following:
  - [BIO264](#) - Human Anatomy and Physiology I (3)
  - [BIO264L](#) - Human Anatomy and Physiology I Lab (1)
  - [BIO265](#) - Human Anatomy and Physiology II (3)
  - [BIO265L](#) - Human Anatomy and Physiology II Lab (1)
  - [BIO376](#) - Cell and Molecular Biology (3)
  - [BIO381](#) - Pathophysiology (3)
  - [BIO410](#) - Immunology (3)

**Emphasis Core 3****4**

Total Credits



- Complete all of the following
  - NOTE: These courses should be taken in the final year.
  - Take 4 credit(s) from:
    - [BIO380](#) - Histology with Lab (4)
    - [BIO383](#) - Human Embryology (3)
    - [BIO411](#) - Medical Microbiology (3)
    - [BIO413](#) - Advanced Microbiology Lab (2)
    - [CHEM351](#) - Organic Chemistry I (3)
    - [CHEM351L](#) - Organic Chemistry Laboratory I (1)



pharmaceutical libraries to identify promising drug therapies, and ecological data to inform global warming discussions. The combination of math and computer skills with knowledge of genetics and molecular biology is in high demand with excellent job outlook and good earning potential. This emphasis will prepare students to pursue graduate studies in genetics, molecular biology, biochemistry, and bioinformatics. The emphasis will also prepare students for immediate employment as bioinformatics technicians. No previous experience with statistics or computer programming is required.

### Emphasis/Concentration Code

223

### Emphasis/Concentration Course Requirements

#### Emphasis Core

24

Total Credits

- Take the following:
  - [BIO376](#) - Cell and Molecular Biology (3)
  - [BIO382](#) - Bioinformatics (3)
  - [ITM111](#) - Introduction to Databases (3)
  - [CSE110](#) - Introduction to Programming (2)
  - [CSE111](#) - Programming with Functions (2)
  - [DS250](#) - Data Science Programming (2)
  - [DS350](#) - Data Wrangling and Visualization (3)
  - [MATH325](#) - Intermediate Statistics (3)
  - [MATH326](#) - Experimental Design (3)

**Grand Total Credits: 24**

Biotechnology

Microbiology

Neuroscience





Biology: Biotechnology is the application of biological information and techniques to meet medical, agricultural, and environmental needs. Students selecting this emphasis will be well prepared to pursue graduate studies in genetics, molecular biology, cellular biology, biochemistry, and physiology. The emphasis will also prepare students for immediate employment as entry-level technicians in one of hundreds of different biotechnology companies and university research labs. The emphasis will also serve pre-professional students interested in one of the medical professions.

#### Emphasis/Concentration Code

070

#### Emphasis/Concentration Course Requirements

##### Emphasis Core

14

Total Credits

- Take the following:
  - [BIO321](#) - Biology of Microorganisms (4)
  - [BIO376](#) - Cell and Molecular Biology (3)
  - [CHEM351](#) - Organic Chemistry I (3)
  - [CHEM351L](#) - Organic Chemistry Laboratory I (1)
  - [CHEM481](#) - Biochemistry I (3)

##### Emphasis Core 2

8

Total Credits

- Take 8 credit(s) from:
  - [APS350](#) - Plant Breeding and Genetics (3)
  - [AGRON440](#) - Crop Physiology (3)
  - [AGRON460](#) - Plant Pathology (3)
  - [BIO382](#) - Bioinformatics (3)
  - [BIO410](#) - Immunology (3)
  - [BIO411](#) - Medical Microbiology (3)
  - [BIO412](#) - Virology (3)
  - [BIO413](#) - Advanced Microbiology Lab (2)
  - [CHEM482](#) - Biochemistry II (3)
  - [HORT320](#) - Plant Propagation (3)

**Grand Total Credits: 22**

Microbiology



Microbiology

### Emphasis/Concentration Description

The Microbiology emphasis is designed to prepare students for career opportunities and graduate work in microbiology and related fields such as bacteriology, immunology, medical microbiology, and virology. Although this emphasis does not give students the depth that a degree in microbiology does, it will give students sufficient background and training to work in laboratories using basic microbiological techniques and to pursue further study in the field.

### Emphasis/Concentration Code

055

### Emphasis/Concentration Course Requirements

#### Emphasis Core

21

Total Credits

- Complete all of the following
  - Take the following:
    - [BIO321](#) - Biology of Microorganisms (4)
    - [BIO410](#) - Immunology (3)
    - [BIO411](#) - Medical Microbiology (3)
    - [BIO412](#) - Virology (3)
    - [BIO413](#) - Advanced Microbiology Lab (2)

AND

- Take 6 credit(s) from:
  - [BIO376](#) - Cell and Molecular Biology (3)
  - [CHEM481](#) - Biochemistry I (3)
  - [CHEM482](#) - Biochemistry II (3)
  - [FS360](#) - Food Microbiology (3)
  - [PUBH370](#) - Epidemiology (3)

**Grand Total Credits: 21**

Neuroscience





Microbiology

## Neuroscience



## Emphasis/Concentration Description

Biology: Neuroscience is a multi-disciplinary program that focuses on the development, structure and function of the nervous system and its regulation of body systems and behavior. The neuroscience emphasis examines topics such as molecular and cellular neurobiology, neuroanatomy, the neural basis of behavior, learning, memory, cognition and perception, neuroendocrinology, neurophysiology, neuronpharmacology, and neurological disorders. Students will be prepared to pursue advanced degrees in biology, psychology, and neuroscience or to enter into the pharmaceutical and biotechnology workforce. Neuroscience is an excellent pre-professional field of study for those interested in health professions, law, or business.

## Emphasis/Concentration Code

062

## Program Notes

- PSYCH 342, 370, and 383 have prerequisites.

## Emphasis/Concentration Course Requirements

**Emphasis Core**

13

Total Credits



- Take the following:

- [BIO240](#) - Neurobiology (4)
- [BIO461](#) - Principles of Physiology (5)
- [BIO485](#) - Advanced Neuroscience (4)

**Emphasis Core 2**

9

Total Credits



- Take 9 credit(s) from:

- [BIO376](#) - Cell and Molecular Biology (3)
- [BIO380](#) - Histology with Lab (4)
- [BIO383](#) - Human Embryology (3)
- [BIO460](#) - Human Anatomy with Lab (4)
- [BIO462](#) - Head and Neck Anatomy (2)
- [PSYCH342](#) - Abnormal Psychology (3)
- [PSYCH370](#) - Sensation and Perception (3)

# BYU-Idaho Academic Catalog

## Biology (Minor)

### Program Description ^

A group of courses (20-24 credits) designed to encourage focused learning in Biology, complementary to an integrated standard degree or as an element of an interdisciplinary studies degree.

### Program Code

143

### Program Notes ^

- No grade less than C- in Minor courses.

### Program Course Requirements ^

#### Introductory Core

8

Total Credits

^

- Complete 1 of the following

Option 1:

- Take the following:

- [BIO180](#) - Introduction to Biology I (3)



- [BIO264](#) - Human Anatomy and Physiology I (3)
- [BIO264L](#) - Human Anatomy and Physiology I Lab (1)
- [BIO265](#) - Human Anatomy and Physiology II (3)
- [BIO265L](#) - Human Anatomy and Physiology II Lab (1)

**Core****3 - 4**

Total Credits



- Complete 1 of the following

Option 1:

- Take the following:
  - [CHEM101](#) - Introductory Chemistry (3)
  - [CHEM101L](#) - Introductory Chemistry Lab (1)

Option 2:

- Take the following:
  - [CHEM105](#) - General Chemistry I (3)
  - [CHEM105L](#) - General Chemistry Laboratory I (1)

Option 3:

- Take the following:
  - [BIO221](#) - General Microbiology (3)
  - [BIO222](#) - General Microbiology Lab (1)

Option 4:

- Take the following:
  - [BIO240](#) - Neurobiology (4)

Option 5:

- Take the following:
  - [BIO225](#) - Range Management (3)

**Electives****6 - 13**

Total Credits



- Take 3 of the following:

- [BIO302](#) - Ecology I (4)
- [BIO312](#) - Invertebrate Zoology (4)
- [BIO321](#) - Biology of Microorganisms (4)
- [BIO331](#) - General Entomology (3)
- [BIO351](#) - Principles Wildlife Management (4)
- [BIO362](#) - Stream Ecology (3)
- [BIO375](#) - Genetics and Molecular Biology (3)
- [BIO376](#) - Cell and Molecular Biology (3)
- [BIO377](#) - Techniques in Biochemistry Molecular Biology (3)

- [BIO385 - Principles of Biochemistry \(4\)](#)
  - o [BIO392 - Range and Wildland Restoration \(2\)](#)
  - o [BIO393 - Range and Wildland Plant Ecology \(4\)](#)
  - o [BIO410 - Immunology \(3\)](#)
  - o [BIO411 - Medical Microbiology \(3\)](#)
  - o [BIO412 - Virology \(3\)](#)
  - o [BIO413 - Advanced Microbiology Lab \(2\)](#)
  - o [BIO420 - Principles of Limnology \(3\)](#)
  - o [BIO423 - Natural Resources Law and Policy \(4\)](#)
  - o [BIO430 - Principles of Pharmacology \(3\)](#)
  - o [BIO445 - Ichthyology \(4\)](#)
  - o [BIO446 - Ornithology \(4\)](#)
  - o [BIO447 - Mammalogy \(4\)](#)
  - o [BIO460 - Human Anatomy with Lab \(4\)](#)
  - o [BIO461 - Principles of Physiology \(5\)](#)
  - o [BIO462 - Head and Neck Anatomy \(2\)](#)
  - o [BIO475 - Evolutionary Science \(3\)](#)
  - o [BIO485 - Advanced Neuroscience \(4\)](#)

**Grand Total Credits: 17 - 25**

Department

Department of Biology



# BYU-Idaho Academic Catalog

## Biomedical Science (Major: Bachelor-Level)

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### Program Description

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The Biomedical Sciences program is designed to meet the prerequisites needed for entrance into Medical, Dental, Optometry, and Physician Assistant graduate programs. It provides a strong background in biology and chemistry with additional exposure to physics and social sciences. Although designed for Health Profession careers the program will also serve students interested in a variety of careers in Biology and Chemistry but may require some additional elective coursework to strengthen their background toward a particular career. Due to the rigorous and competitive nature of health profession graduate programs the Biomedical Sciences program requires a 3.4 or better college GPA.

### Program Code

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489

### Program Learning Outcomes (PLOs)

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1. Demonstrate foundational knowledge in the chemistry of biological systems.
2. Demonstrate foundational knowledge in the molecules of life and cell biology.
3. Demonstrate foundational knowledge in the physical science of living systems.
4. Demonstrate foundational knowledge in the science of cell biology.
5. Demonstrate foundational knowledge in the science of the structure and function of human organ systems.
6. Demonstrate foundational knowledge in the science of the physiological function and regulation of human organ systems.
7. Demonstrate foundational knowledge in the science of human cognition and behavior.



## Program Notes



- To graduate with a Bachelor's degree, a student must earn:
  - grades of C- or higher in major courses
  - a 2.0 cumulative GPA
  - a minimum of 120 cumulative credits
- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.
- Students must maintain a 3.4 GPA.
- CHEM 352, CHEM 352L, PH 105, and PH 106 are recommended for Medicine.
- CHEM 352, CHEM 352L, PH 105, and PH 106 are recommended for Dentistry.
- BIO 321, MATH 112, PH 105, and PH 106 are recommended for Optometry.
- BIO 321, BIO 375, and PSYCH 342 are recommended for Physician Assistant.

## Program Course Requirements



### General Education

39

Total Credits



- Take at least 39 credit(s) to complete one of the following program(s): [GE - BACH](#)

### Introductory Core

33

Total Credits



- Take the following:

- [BIO180](#) - Introduction to Biology I (3)
- [BIO180L](#) - Introduction to Biology I Lab (1)
- [BIO181](#) - Introduction to Biology II (3)
- [BIO181L](#) - Introduction to Biology II Lab (1)
- [BIO199](#) - Biology Orientation (1)
- [BIO460](#) - Human Anatomy with Lab (4)
- [BIO461](#) - Principles of Physiology (5)
- [CHEM105](#) - General Chemistry I (3)
- [CHEM105L](#) - General Chemistry Laboratory I (1)
- [CHEM106](#) - General Chemistry II (3)
- [CHEM106L](#) - General Chemistry Laboratory II (1)
- [CHEM351](#) - Organic Chemistry I (3)
- [CHEM351L](#) - Organic Chemistry Laboratory I (1)
- [PSYCH111](#) - General Psychology (3)



- [BIO385](#) - Principles of Biochemistry (4)

Option 2:

- Take the following:
  - [CHEM481](#) - Biochemistry I (3)
  - [CHEM482](#) - Biochemistry II (3)

**Math Core****3 - 4**

Total Credits



- Take 1 of the following:
  - [MATH221B](#) - Biostatistics (3)
  - [MATH112X](#) - Calculus I (4)

**Elective Major Credits****10**

Total Credits



- Take 10 credit(s) from:
  - [BIO321](#) - Biology of Microorganisms (4)
  - [BIO375](#) - Genetics and Molecular Biology (3)
  - [CHEM352](#) - Organic Chemistry II (3)
  - [CHEM352L](#) - Organic Chemistry Laboratory II (1)
  - [MATH112X](#) - Calculus I (4)
  - [PH105](#) - Introductory Applied Physics I (4)
  - [PH106](#) - Introductory Applied Physics II (4)
  - [PSYCH342](#) - Abnormal Psychology (3)

**Unspecified Electives****28**

Total Credits



- Take at least 28 credit(s) from any eligible university credits.

In addition to courses meeting the requirements for this program, students can take other courses offered by the university, for which they meet the course eligibility requirements, to bring their total number of credits to the minimum of 120 credits required for graduation. Additional credits may also come from credits received through General Education courses.

**Grand Total Credits: 117 - 120**

Degree

Bachelor of Science (BS)



# BYU-Idaho Academic Catalog

## Department of Biology

### Allied Health

Major: Associate-Level

### Biological Illustration

Cluster

### Biology

Major: Bachelor-Level

- Applied Lab Science
- Bioinformatics
- Biotechnology
- Microbiology
- Neuroscience

### Biology

Minor

### Biology Education

Major: Bachelor-Level

### Biology Education

Minor

### Biomedical Science

Major: Bachelor-Level

### Fisheries, Range and Wildlife Management

Major: Bachelor-Level

- Fisheries





[Natural Resources](#)

Minor

[Neuroscience](#)

Cluster

[Pre-Profession](#)

Cluster

[Recreation Therapy](#)

Cluster

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# BYU-Idaho Academic Catalog

## Business Administration (Certificate)

### Program Description



An advanced certificate in business administration, which adds important analytical, financial, operational and international business skills to the supervisory skills gained in the business and leadership skills certificate. The certificate is primarily targeted for students who pursue the Applied Business Management Bachelor of Science online degree.

### Program Code

C135

### Program Learning Outcomes (PLOs)

1. Demonstrate real-world applications of core financial principles.
2. Identify and apply appropriate tools to improve operational performance.
3. Develop strategies to improve marketing using social media platforms.
4. Demonstrate a working knowledge of foreign exchanges and regional economic integration.

### Program Notes



- To be awarded an academic certificate independent of a bachelor's or an associate degree, a student must earn:





## Program Course Requirements



### Certificate Core

15



Total Credits

- Take the following:
  - [BUS380](#) - International Business (3)
  - [BUS410](#) - Principles of Advanced Business Management (3)
  - [FIN301](#) - Financial Management (3)
  - [MKT351](#) - Social Media Marketing (3)
  - [SCM361](#) - Operations Management (3)

**Grand Total Credits: 15**

### Department

Department of Business Management

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# BYU-Idaho Academic Catalog

## Business Management (Major: Bachelor-Level)

### Program Description



The Bachelor of Science (BS) in Business Management Degree prepares students to work in positions in a variety of business settings.

### Program Code

415

### Program Learning Outcomes (PLOs)

1. Identify personal leadership strengths and weaknesses that will allow improvement in leadership competency.
2. Diagnose the health of a business organization using financial statements and relevant data.
3. Apply appropriate tools to solve business problems.
4. Present business information professionally in writing.

### Program Notes



- To graduate with a Bachelor's degree, a student must earn:
  - grades of C- or higher in major courses
  - a 2.0 cumulative GPA
  - a minimum of 120 cumulative credits





- BUS300, BUS302, and MKT301 are part of the integrated business core (IBC) experience where teams of students create and run a business on campus. IBC courses must all be taken together during the same semester.

## Program Course Requirements



### General Education

**39**

Total Credits



- Take at least 39 credit(s) to complete one of the following program(s): [GE - BACH](#)

### Core

**45 - 49**

Total Credits



- Complete all of the following

- Take the following:
    - [BUS100](#) - Business Exploration and Orientation (1)
    - [BUS200](#) - Small Business Management (3)

AND

- Take the following:
    - [BA211](#) - Business Fundamentals (3)
    - [ECON150](#) - Economic Principles and Problems-Micro (3)

AND

- NOTE: The following courses must be taken together in the same semester:

- Take the following:
    - [BUS300](#) - IBC Business Basics (3)
    - [BUS302](#) - IBC Business Leadership (3)
    - [MKT301](#) - IBC Marketing (3)

AND

- Take 1 of the following:
    - [BUS297R](#) - Project-Based Internship (1)
    - [BUS298R](#) - Beginning Internship (1 - 3)

AND

- Take the following:
    - [ACCTG201](#) - Financial Accounting (3)
    - [ACCTG202](#) - Managerial Accounting (3)
    - [BA215](#) - Spreadsheet Analysis for Business (3)
    - [ECON151](#) - Economic Principles and Problems-Macro (3)
    - [FIN301](#) - Financial Management (3)
    - [SCM361](#) - Operations Management (3)



- [MKT370](#) - Professional Sales (3)

AND

- Take the following:

- [BUS398R](#) - Advanced Business Internship (1 - 3)
- [BUS499](#) - Principles of Business Strategy (3)

**Elective Major Credits****32**

Total Credits



- Take at least 32 credit(s) from two certificates, one minor, or any eligible university credits to create an industry-specific focus to pair with the requirements for this program.

Students can take other courses offered by the university, for which they meet the course eligibility requirements, to bring their total number of credits to the minimum of 120 credits required for graduation. Additional credits may also come from credits received through General Education courses.

**Grand Total Credits: 116 - 120**

## Degree

Bachelor of Science (BS)

## Department

Department of Business Management





# BYU-Idaho Academic Catalog

## Business Management (Minor)

### Program Description



A group of courses (20-24 credits) designed to encourage focused learning in Business Management, complementary to an integrated standard degree or as an element of an interdisciplinary studies degree.

### Program Code

250

### Program Notes



- Not all courses are available online.
- Recommendation: [BUS 301](#) (also covers advanced writing GE requirement).
- [BUS300](#), [BUS302](#), [MKT301](#) courses are part of the integrated business core (IBC) experience where teams of students create and run a business on campus. IBC courses must all be taken together during the same semester.
- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.

### Program Course Requirements



Core

24

Total Credits





- [BUS200](#) - Small Business Management (3)
- [BUS499](#) - Principles of Business Strategy (3)  
AND
- Take the following:
  - [BUS300](#) - IBC Business Basics (3)
  - [BUS302](#) - IBC Business Leadership (3)
  - [MKT301](#) - IBC Marketing (3)  
AND
- Take 1 of the following:
  - [ACCTG180](#) - Survey of Accounting (3)
  - [ACCTG201](#) - Financial Accounting (3)

**Grand Total Credits: 24**

Department

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Department of Business Management

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# BYU-Idaho Academic Catalog

## Department of Business Management

[Business Administration](#)

Certificate

[Business Management](#)

Minor

[Business Management](#)

Major: Bachelor-Level

[General Business for Accounting Majors](#)

Cluster

[Human Resource Management](#)

Certificate

[Small Business Innovation and Management](#)

Minor

[Small Business Innovation and Management](#)

Certificate





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# BYU-Idaho Academic Catalog

## Department of Chemistry and Biochemistry

[Biochemistry](#)

Major: Bachelor-Level

[Chemistry](#)

Cluster

[Chemistry](#)

Minor

[Chemistry](#)

Major: Bachelor-Level





# BYU-Idaho Academic Catalog

## Event Planning (Cluster)

### Program Description

A cluster of courses (12-15 credits) designed to prepare students in event planning, supplemental to a major.

### Program Code

1500

### Program Course Requirements

#### Core Courses

16

Total Credits

- Take the following:
  - [BUS210](#) - Small Business Creation (3)
  - [HORT235](#) - Floral Design (3)
  - [HORT287R](#) - Practicum in Floral Design (1)
  - [HORT325](#) - Interiorscaping (2)
  - [HORT328](#) - Wedding and Event Planning (2)
  - [HORT338R](#) - Advanced Wedding and Event Planning (3)
  - [HORT438R](#) - Bridal Couture Floral Design (2)



**Grand Total Credits: 16**



# BYU-Idaho Academic Catalog

## Financial Accounting: for Business Majors (Cluster)

### Program Description



A cluster of courses (12-15 credits) designed to prepare students in Financial Accounting (for Business Majors), supplemental to a major.

### Program Code

2003

### Program Course Requirements



#### Core Courses

12

Total Credits



- Take the following:
  - [ACCTG301](#) - Intermediate Financial Accounting I (3)
  - [ACCTG302](#) - Intermediate Financial Accounting II (3)
  - [ACCTG344](#) - Auditing (3)
  - [ACCTG403](#) - Advanced Accounting (3)

**Grand Total Credits: 12**





# BYU-Idaho Academic Catalog

## Financial Accounting: for Non-Business Majors (Cluster)

### Program Description



A cluster of courses (12-15 credits) designed to prepare students in Financial Accounting, supplemental to a major.

### Program Code

2000

### Program Course Requirements



#### Core Courses

12

Total Credits



- Take the following:
  - [ACCTG201](#) - Financial Accounting (3)
  - [ACCTG202](#) - Managerial Accounting (3)
  - [ACCTG301](#) - Intermediate Financial Accounting I (3)
  - [ACCTG302](#) - Intermediate Financial Accounting II (3)

**Grand Total Credits: 12**

### Department





# BYU-Idaho Academic Catalog

## Fine Art (Major: Bachelor-Level)

### Program Description



The Bachelor of Arts degree is designed to provide students with experiences in a range of visual arts, as well as to provide knowledge of contemporary and historical artists. It will also prepare students for success in one of several disciplines within the visual arts including: Ceramics, Painting, Photography, Printmaking, and Sculpture.

### Program Code

663

### Program Learning Outcomes (PLOs)

1. Demonstrate comprehension of contemporary and historical art.
2. Understand values relevant to art.
3. Demonstrate an understanding of visual art aesthetics.
4. Demonstrate preparation for a career in the visual arts.
5. Demonstrate competency in formal art issues.
6. Comprehend place in contemporary art world.

### Program Notes





- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.
- No double-counting of courses.
- Some courses may not be offered every semester. Check iPlan to see when courses are offered.
- ART 160 may be taken by Photography emphasis students instead of ART 312R.
- ART 297R should be taken 3 times for a total of 1.5 credits.

## Program Course Requirements



### General Education

**39**

Total Credits



- Take at least 39 credit(s) to complete one of the following program(s): [GE - BACH](#)



### Introductory Core

**12.5**

Total Credits



- Take the following:

- [ART106](#) - Freshman Art Orientation Seminar (.5)
- [ART107](#) - Design and Color (3)
- [ART110](#) - Drawing I (3)
- [ART201](#) - Art History I (3)
- [ART202](#) - Art History II (3)



### Core

**16**

Total Credits



- Complete all of the following

- Take 1 of the following:
  - [ART160](#) - Photography I (3)
  - [ART312R](#) - Figure Drawing (3)

AND

- Take 1 of the following:
  - [ART250](#) - Oil Painting I (3)
  - [ART260](#) - Intermediate Photography (3)
  - [ART270](#) - Printmaking I (3)

AND

- Take 1 of the following:
  - [ART220](#) - Ceramics I (3)
  - [ART280](#) - Sculpture I (3)
  - [ART361](#) - Advanced Photography (3)

**Adobe****3**

Total Credits



- Take the following:
  - [ART125](#) - Adobe CC Basics (3)

**Travel Study****1 - 4**

Total Credits



- Take 1 of the following:
  - [ART395A](#) - Travel Study in the Arts (A) (1)
  - [ART395B](#) - Travel Study in the Arts (B) (1)
  - [ART395C](#) - Travel Study in the Arts (C) (1)
  - [ART395D](#) - Travel Study in the Arts (D) (1 - 3)
  - [ART498R](#) - Internship in the Arts (1 - 4)

**Experiential Learning****2.5**

Total Credits



- Complete all of the following
  - Take 1.5 credit(s) from:
    - [ART297R](#) - Art Seminar (0.5)
  - AND
  - Take the following:
    - [ART493](#) - Fine Art Capstone (1)

**Elective Major Credits****8**

Total Credits



- Take 8 credit(s) from:
  - [ART130](#) - Introduction to Graphic Design (3)
  - [ART142](#) - Media Experimentation (3)
  - [ART160](#) - Photography I (3)
  - [ART210](#) - Drawing II (3)
  - [ART217](#) - Design and Color II (3)
  - [ART230](#) - Typography I (3)
  - [ART235](#) - Graphic Design (3)
  - [ART240](#) - Introduction to Illustration (3)
  - [ART245R](#) - 2D Digital Illustration (3)
  - [ART250](#) - Oil Painting I (3)


[ART290R - Independent Study \(1 - 4\)](#)

- [ART310](#) - Expressive Drawing (3)
- [ART312R](#) - Figure Drawing (3)
- [ART320](#) - Ceramics II (3)
- [ART333R](#) - Surface and Pattern Design (3)
- [ART334R](#) - Typography II (3)
- [ART345R](#) - 3D Digital Illustration (3)
- [ART355R](#) - Figurative Painting (3)
- [ART357R](#) - Painting Methodologies (3)
- [ART361](#) - Advanced Photography (3)
- [ART380R](#) - Sculpture Medium and Methodology (3)
- [ART412R](#) - Advanced Figure Drawing (3)
- [ART420R](#) - Ceramics III (3)
- [ART435R](#) - Three-Dimensional Graphic Design (3)
- [ART436R](#) - Motion Design (3)
- [ART450R](#) - Advanced Painting (3)
- [ART460R](#) - Portrait Photography (3)
- [ART462R](#) - Historic Photographic Processes (3)
- [ART463R](#) - Documentary Photography (3)
- [ART470R](#) - Printmaking III (3)
- [ART475R](#) - Advanced Book Arts (3)
- [ART480R](#) - Figure Sculpture (3)
- [ART491R](#) - Independent Study II (1 - 4)

**Emphasis****12**

Total Credits



- Take at least 12 credit(s) from one Emphasis listed below.

**Unspecified Electives****23**

Total Credits



- Take at least 23 credit(s) from any eligible university credits.

In addition to courses meeting the requirements for this program, students can take other courses offered by the university, for which they meet the course eligibility requirements, to bring their total number of credits to the minimum of 120 credits required for graduation. Additional credits may also come from credits received through General Education courses.

**Grand Total Credits: 117 - 120**



Department of Art

## Emphasis/Concentration Options

2D



### Emphasis/Concentration Description

A group of courses through which students specialize in two-dimensional mediums (painting and printmaking) and processes.

### Emphasis/Concentration Code

254

### Program Notes

- Some courses may not be offered every semester. Check iPlan to see when courses are offered.

### Emphasis/Concentration Course Requirements

#### Emphasis Core

12



Total Credits

- Complete all of the following
  - Take 1 of the following:
    - [ART250](#) - Oil Painting I (3)
    - [ART270](#) - Printmaking I (3)
  - AND
  - Take 9 credit(s) from:
    - [ART336](#) - Book Arts (3)
    - [ART355R](#) - Figurative Painting (3)
    - [ART357R](#) - Painting Methodologies (3)
    - [ART370](#) - Printmaking II (3)
    - [ART450R](#) - Advanced Painting (3)
    - [ART470R](#) - Printmaking III (3)

**Grand Total Credits: 12**

3D Emphasis





2D



3D Emphasis



### Emphasis/Concentration Description

A group of courses through which students specialize in three-dimensional mediums (ceramics and sculpture) and processes.

### Emphasis/Concentration Code

255

### Program Notes

- Some courses may not be offered every semester. Check iPlan to see when courses are offered.

### Emphasis/Concentration Course Requirements

#### Core Courses

12

Total Credits



- Take 12 credit(s) from:
  - [ART220](#) - Ceramics I (3)
  - [ART280](#) - Sculpture I (3)
  - [ART320](#) - Ceramics II (3)
  - [ART336](#) - Book Arts (3)
  - [ART380R](#) - Sculpture Medium and Methodology (3)
  - [ART420R](#) - Ceramics III (3)
  - [ART480R](#) - Figure Sculpture (3)
  - [ART498R](#) - Internship in the Arts (1 - 4)
  - [WELD170](#) - Welding Science and Allied Processes (2)

**Grand Total Credits: 12**

Photography





2D



3D Emphasis



Photography



#### Emphasis/Concentration Description

A group of courses through which students specialize in Photography

#### Emphasis/Concentration Code

256

#### Program Notes

- Some courses may not be offered every semester. Check iPlan to see when courses are offered.

#### Emphasis/Concentration Course Requirements

##### Emphasis Core

12

Total Credits



- Take 12 credit(s) from:
  - [ART307](#) - History of Photography (3)
  - [ART362](#) - Introduction to Studio Lighting (3)
  - [ART364R](#) - Advanced Black/White Photography (3)
  - [ART366R](#) - Commercial Photography (3)
  - [ART460R](#) - Portrait Photography (3)
  - [COMM360](#) - Video Journalism (3)

**Grand Total Credits: 12**





# BYU-Idaho Academic Catalog

## Fine Art (Minor)

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### Program Description

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A group of courses (20-24 credits) designed to encourage focused learning in Fine Art, complementary to an integrated standard degree or as an element of an interdisciplinary studies degree.

### Program Code

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273

### Program Learning Outcomes (PLOs)

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1. Demonstrate a comprehension of contemporary and historical art (Art History).
2. Understand values relevant to art (Belief and Ethics).
3. Demonstrate an understanding of visual art aesthetics (Aesthetics).
4. Demonstrate preparation for a career in the visual arts (Career).
5. Demonstrate competency in formal art issues (Skills).
6. Comprehend place in contemporary art world (Context).

### Program Notes

---



- No grade less than C- in required courses.



Core

## Total Credits

- Complete all of the following
  - Take the following:
    - [ART106](#) - Freshman Art Orientation Seminar (.5)
    - [ART107](#) - Design and Color (3)
    - [ART110](#) - Drawing I (3)
    - [ART201](#) - Art History I (3)
    - [ART202](#) - Art History II (3)

AND

  - Take 1 of the following:
    - [ART160](#) - Photography I (3)
    - [ART312R](#) - Figure Drawing (3)

AND

  - Take 1 of the following:
    - [ART250](#) - Oil Painting I (3)
    - [ART260](#) - Intermediate Photography (3)
    - [ART270](#) - Printmaking I (3)

AND

  - Take 1 of the following:
    - [ART220](#) - Ceramics I (3)
    - [ART280](#) - Sculpture I (3)
    - [ART361](#) - Advanced Photography (3)

AND

  - Take the following:
    - [ART125](#) - Adobe CC Basics (3)

**Grand Total Credits: 24.5**

Department

Department of Art

# BYU-Idaho Academic Catalog

## Fisheries, Range and Wildlife Management (Major: Bachelor-Level)

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### Program Description

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This degree provides a powerful foundation for most natural resource related fields. It offers three separate areas of specialization, with course work requirements designed to meet State and Federal hiring prerequisites, and to prepare students for graduate studies.

### Program Code

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486

### Program Learning Outcomes (PLOs)

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1. Demonstrate the ability to read and understand scientific literature.
2. Understand appropriate experimental design for hypothesis testing.
3. Present scientific information to professional and public audiences using oral and written communication: Resume, Cover Letter, Scientific reports, Posters, Oral presentations.
4. Demonstrate knowledge of the following biological: Natural Resource Management, Conservation, Ecology, Evolution, Biodiversity.
5. Demonstrate competency in lab and field methodologies, including the following: Basic field skills, Field survey techniques, Laboratory techniques, Taxonomic identification, Teamwork.
6. Collect, archive, analyze, and present scientific data successfully: Recording, Archiving and retrieval, Analyses, Presentation.



- grades of C- or higher in major courses
- a 2.0 cumulative GPA
- a minimum of 120 cumulative credits
- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.
- No double counting of courses.
- The following courses are only offered Fall/Winter track: BIO 208, BIO 225, BIO 252, BIO 325, BIO 351, BIO 370, BIO 392, BIO 393, BIO 423, and BIO 446.
- Students may petition for track change after completing: BIO 208, BIO 302, BIO 311, GIS 250, MATH 221D, and CHEM 101.

## Program Course Requirements



### General Education

**39**

Total Credits



- Take at least 39 credit(s) to complete one of the following program(s): [GE - BACH](#)

### Core

**33**

Total Credits



- Take the following:
  - [BIO198](#) - Wildlife and Natural Resource Career Orientation (1)
  - [BIO203](#) - Basic Skills and Safety for Field Biologists (1)
  - [BIO208](#) - Introduction to Plant Biology (4)
  - [BIO302](#) - Ecology I (4)
  - [BIO311](#) - Scientific Writing and Communication (3)
  - [BIO351](#) - Principles Wildlife Management (4)
  - [BIO370](#) - Conservation Genetics (3)
  - [BIO392](#) - Range and Wildland Restoration (2)
  - [BIO423](#) - Natural Resources Law and Policy (4)
  - [GIS150](#) - Spatial Thinking (1)
  - [GIS250](#) - Spatial Analysis (3)
  - [MATH221D](#) - Introductory Statistics with R (3)

### Experiential Learning

**1 - 4**

Total Credits



- Take 1 of the following:
  - [BIO398](#) - Occupational Internship (1 - 4)
  - [BIO497](#) - Senior Seminar (3)



- Take between 34 and 37 credits from the following types of courses:  
one Emphasis option listed below.

**Unspecified Electives**

7

Total Credits



- Take at least 7 credit(s) from  
any eligible university credits.

In addition to courses meeting the requirements for this program, students can take other courses offered by the university, for which they meet the course eligibility requirements, to bring their total number of credits to the minimum of 120 credits required for graduation. Additional credits may also come from credits received through General Education courses.

**Grand Total Credits: 114 - 120****Degree**

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Bachelor of Science (BS)**Department**

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Department of Biology**Emphasis/Concentration Options**

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Fisheries**Emphasis/Concentration Description**

**Plant and Wildlife Ecology:** The Fisheries emphasis prepares students for careers as fisheries biologists, conservation officers, natural resource managers, park rangers, natural resource policy/administration officers and for legal careers and post-baccalaureate studies in fisheries related fields.

**Emphasis/Concentration Code**

---

234**Program Notes**

- Some courses are only offered during Fall and Winter terms.
- Students may petition for track change after completing BIO 180, 181, 302, 311, GEOL 340, MATH 221B, and CHEM 101.

**Emphasis/Concentration Course Requirements****Emphasis Core**

32 - 34

Total Credits



- [BIO331](#) - General Entomology (3)
  - [BIO360](#) - Principles of Fish Management (4)
  - [BIO362](#) - Stream Ecology (3)
  - [BIO420](#) - Principles of Limnology (3)
  - [BIO445](#) - Ichthyology (4)
  - [BIO475](#) - Evolutionary Science (3)
  - [CHEM101](#) - Introductory Chemistry (3)
  - [CHEM101L](#) - Introductory Chemistry Lab (1)
- AND
- Take 1 of the following:
  - [BIO455](#) - Fisheries and Wildlife Field Studies (3)
  - [BIO490](#) - Special Problems (1 - 3)

**Grand Total Credits: 32 - 34**

Range



Wildlife





Bachelor of Science (BS)

## Department

Department of Biology

## Emphasis/Concentration Options

Fisheries



Range



### Emphasis/Concentration Description

Plant and Wildlife Ecology: The Range emphasis prepares students for careers in rangeland conservation, rangeland ecology, rangeland/livestock production consulting, wildlife and livestock production in a rangeland setting, or for post-baccalaureate studies in rangeland ecology related fields.

### Emphasis/Concentration Code

233

### Program Notes

- Some courses are only offered during Fall and Winter terms.
- Students may petition for track change after completing BIO 180, 181, 302, 311, GEOL 340, MATH 221B, and CHEM 101.

### Emphasis/Concentration Course Requirements

#### Emphasis Core

37



Total Credits

- Take the following:
  - [APS220](#) - Horticultural Soils (3)
  - [APS220L](#) - Soils Lab (1)
  - [AGRON321](#) - Soil Fertility and Plant Nutrition (4)
  - [AS220](#) - Feeds and Nutrition (3)
  - [BIO208](#) - Introduction to Plant Biology (4)
  - [BIO225](#) - Range Management (3)
  - [BIO252](#) - Range Plant Taxonomy (4)
  - [BIO325](#) - Range Ecology Systems Management (3)
  - [BIO393](#) - Range and Wildland Plant Ecology (4)

**Emphasis Core**

50

Total Credits



- Take the following:
  - [BIO225](#) - Range Management (3)
  - [BIO252](#) - Range Plant Taxonomy (4)
  - [BIO303](#) - Ecology II (3)
  - [BIO360](#) - Principles of Fish Management (4)
  - [BIO362](#) - Stream Ecology (3)
  - [BIO393](#) - Range and Wildland Plant Ecology (4)
  - [BIO446](#) - Ornithology (4)
  - [BIO447](#) - Mammalogy (4)
  - [BIO475](#) - Evolutionary Science (3)
  - [CHEM101](#) - Introductory Chemistry (3)
  - [CHEM101L](#) - Introductory Chemistry Lab (1)

**Grand Total Credits: 36**

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# BYU-Idaho Academic Catalog

## Floral Design (Certificate)

### Program Description



A certificate of courses (12-15 credits) that is designed to prepare students in Floral Design/Retail. This Certificate will prepare students to enter into gainful employment in a retail floral shop. It is designed to equip the student with the skills and qualifications necessary to work in or run a floral design business.

### Program Code

C146

### Program Learning Outcomes (PLOs)

1. Demonstrate proficiency in retail floral skills including customer service, flower processing and every day floral arranging.
2. Demonstrate proficiency in wedding and event floral design.
3. Demonstrate proficiency in funeral floral design.
4. Demonstrate proficiency in corsage & boutonniere design.

### Program Notes



- To be awarded an academic certificate independent of a bachelor's or an associate degree, a student must earn:





## Program Course Requirements



### Certificate Core

12



Total Credits

- Take the following:
  - [HORT235 - Floral Design \(3\)](#)
  - [HORT287R - Practicum in Floral Design \(1\)](#)
  - [HORT325 - Interiorscaping \(2\)](#)
  - [HORT328 - Wedding and Event Planning \(2\)](#)
  - [HORT435 - Advanced Floral Design \(2\)](#)
  - [HORT438R - Bridal Couture Floral Design \(2\)](#)

**Grand Total Credits: 12**

### Department

Department of Applied Plant Science

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# BYU-Idaho Academic Catalog

## Photography (Cluster)

### Program Description



A cluster of courses designed to introduce students to the fundamentals of Photography, supplemental to a major, minor or concentration.

### Program Code

5204

### Program Learning Outcomes (PLOs)

1. Acquire requisite skills concerning camera operation, photographic studio equipment, image editing, photographic printing, and professional presentation.
2. Acquire proficient aesthetic visual sensitivity (design, light, color theory, etc.)
3. Understand historical and contemporary ideas and trends in photography and through this understanding will gain a context for their personal photographic work.
4. Engage in visual critical analysis of photographic works (including works of established artists, the work of their peers, and their own work).

### Program Notes



- All photography students must own a digital SLR camera.
- There are to be no customized clusters in the photography area.



**Core Courses**

Total Credits

- Take the following:
  - [ART125](#) - Adobe CC Basics (3)
  - [ART160](#) - Photography I (3)
  - [ART260](#) - Intermediate Photography (3)
  - [ART361](#) - Advanced Photography (3)

**Grand Total Credits: 12**

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Department

Department of Art

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# BYU-Idaho Academic Catalog

## Photography (Minor)

### Program Description



A group of courses (21 credits) designed to encourage focused learning in Photography, complementary to an integrated standard degree or as an element of an Interdisciplinary Studies degree.

### Program Code

205

### Program Learning Outcomes (PLOs)

1. Acquire requisite skills concerning camera operation, photographic studio equipment, image editing, photographic printing, and professional presentation.
2. Acquire proficient aesthetic visual sensitivity (design, light, color theory, etc.)
3. Understand historical and contemporary ideas and trends in photography and through this understanding will gain a context for their personal photographic work.
4. Engage in visual critical analysis of photographic works (including works of established artists, the work of their peers, and their own work).
5. Be prepared to take advantage of opportunities in the fields of commercial photography, fine art photography, small business ownership, graduate school, and personal enrichment.

### Program Notes





## Program Course Requirements

**Core****15**

Total Credits



- Take the following:

- [ART125](#) - Adobe CC Basics (3)
- [ART160](#) - Photography I (3)
- [ART260](#) - Intermediate Photography (3)
- [ART361](#) - Advanced Photography (3)
- [ART362](#) - Introduction to Studio Lighting (3)

**Electives****6**

Total Credits



- Take 2 of the following:

- [ART307](#) - History of Photography (3)
- [ART364R](#) - Advanced Black/White Photography (3)
- [ART366R](#) - Commercial Photography (3)
- [ART460R](#) - Portrait Photography (3)
- [ART462R](#) - Historic Photographic Processes (3)
- [ART463R](#) - Documentary Photography (3)
- [COMM360](#) - Video Journalism (3)

**Grand Total Credits: 21**

## Department

Department of Art



# BYU-Idaho Academic Catalog

## Plant Science and Technology (Major: Associate-Level)

### Program Description



The Plant Science and Technology program is designed to help students prepare for careers in the plant-based agricultural sector of the economy. The program integrates the science and technology foundational to agronomic and horticultural crop production. Students complete a core set of courses and then choose between courses in five focus areas to synthesize their degree based on their career goals. Career opportunities in professional fields include agricultural services industry, private consulting, agronomic and horticultural crop production, agricultural education, environmental services, government agricultural agencies, machinery management and research & development.

### Program Code

365

### Program Learning Outcomes (PLOs)

1. Use quantitative reasoning to measure, analyze, and find solutions for plant- and technology-based problems.
2. Communicate plant science and technology ideas through written, visual, and oral formats to various audiences.
3. Demonstrate application of technology in plant systems.
4. Understand principles of plant science and technology.

### Program Notes



- To graduate with an associate degree, a student must earn:

Program Course Requirements ^**General Education****18**Total Credits ^

- Take at least 18 credit(s) to complete one of the following program(s): [GE - AAS](#)

**Core****21**Total Credits ^

- Complete all of the following
  - Take the following:
    - [AGTEC110](#) - Introduction to Agriculture Technology (3)
    - [AGTEC302L](#) - Agricultural Irrigation Lab (1)
    - [AGRON301](#) - Soil Science (3)
    - [APS122](#) - Introduction to Plant Science (3)
    - [APS123](#) - Introduction to Plant Science Laboratory (1)
    - [APS220L](#) - Soils Lab (1)
    - [APS250](#) - Agriculture Leadership and Management (3)
    - [APS300](#) - Irrigation and Water Management (2)
    - [CHEM101](#) - Introductory Chemistry (3)
  - AND
  - Take 1 credit(s) from:
    - [APS398R](#) - Internship (1 - 5)

**Elective Major Credits****21**Total Credits ^

- Take 21 credit(s) from:
  - [AGRON321](#) - Soil Fertility and Plant Nutrition (4)
  - [AGRON330](#) - Forage Crops (3)
  - [AGRON435](#) - Crop Science (3)
  - [AGRON460](#) - Plant Pathology (3)
  - [AGTEC186](#) - Introduction to Precision Agriculture (2)
  - [AGTEC220](#) - Agricultural Safety (3)
  - [AGTEC486](#) - Precision Agriculture (3)
  - [APS397R](#) - Agronomy Practicum (1 - 2)
  - [APS412](#) - Integrated Pest Management (2)
  - [APS462](#) - Crop Insect Management (2)



- [Nursing](#) - Greenhouse Operations (3)

**Grand Total Credits: 60**

Degree

Associate of Applied Science (AAS)

Department

Department of Applied Plant Science

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# BYU-Idaho Academic Catalog

## Plant Science and Technology (Major: Bachelor-Level)

### Program Description



The Plant Science and Technology program is designed to help students prepare for careers in the plant-based agricultural sector of the economy. The program integrates the science and technology foundational to agronomic and horticultural crop production. Students complete a core set of courses and then choose between courses in five focus areas to synthesize their degree based on their career goals. Career opportunities in professional fields include agricultural services industry, private consulting, agronomic and horticultural crop production, agricultural education, environmental services, government agricultural agencies, machinery management, and research and development. Students are strongly encouraged to use their 26 university general elective credits to take courses in agribusiness, biology, business, chemistry, and/or data science.

### Program Code

649

### Program Learning Outcomes (PLOs)

1. Use quantitative reasoning to measure, analyze, and find solutions for plant- and technology-based problems.
2. Communicate plant science and technology ideas through written, visual, and oral formats to various audiences.
3. Demonstrate application of technology in plant systems.
4. Understand principles of plant science and technology.



### Program Notes



- grades of C or higher in major courses

- a 2.0 cumulative GPA

- a minimum of 120 cumulative credits

- Graduation in this program does not imply or guarantee licensure or certification reciprocity or job attainment in Idaho or any other state or country.

## Program Course Requirements



### General Education

**39**

Total Credits



- Take at least 39 credit(s) to complete one of the following program(s): [GE - BACH](#)

### Core

**21**

Total Credits



- Complete all of the following

- Take the following:

- [AGRON301](#) - Soil Science (3)
  - [AGTEC110](#) - Introduction to Agriculture Technology (3)
  - [AGTEC302L](#) - Agricultural Irrigation Lab (1)
  - [APS122](#) - Introduction to Plant Science (3)
  - [APS123](#) - Introduction to Plant Science Laboratory (1)
  - [APS220L](#) - Soils Lab (1)
  - [APS250](#) - Agriculture Leadership and Management (3)
  - [APS300](#) - Irrigation and Water Management (2)
  - [CHEM101](#) - Introductory Chemistry (3)

AND

- Take 1 credit(s) from:

- [APS398R](#) - Internship (1 - 5)

### Elective Major Credits

**34**

Total Credits



- Take 34 credit(s) from:

- [AGBUS201](#) - Agricultural Financial Accounting (3)
  - [AGBUS210](#) - Agricultural Economics (3)
  - [AGBUS347](#) - Agricultural Marketing (3)
  - [AGRON321](#) - Soil Fertility and Plant Nutrition (4)
  - [AGRON330](#) - Forage Crops (3)
  - [AGRON425](#) - Soil Management (3)

[AGRONOMY](#) [Agronomy](#) (3)

- [AGTEC186](#) - Introduction to Precision Agriculture (2)
- [AGTEC220](#) - Agricultural Safety (3)
- [AGTEC230](#) - Sensors and Electrical Systems (2)
- [AGTEC301](#) - Engine and Tractor Power (3)
- [AGTEC360](#) - Fluid Power Technology (3)
- [AGTEC465](#) - Machinery and Power Management (3)
- [AGTEC486](#) - Precision Agriculture (3)
- [APS299R](#) - Seminar (1)
- [APS312](#) - Alternative Cropping Systems (2)
- [APS350](#) - Plant Breeding and Genetics (3)
- [APS397R](#) - Agronomy Practicum (1 - 2)
- [APS412](#) - Integrated Pest Management (2)
- [APS462](#) - Crop Insect Management (2)
- [APS465](#) - Integrated Weed Management (3)
- [APS490R](#) - Special Topics in Applied Plant Science (3)
- [APS497R](#) - Mentored Student Research (1 - 3)
- [BIO208](#) - Introduction to Plant Biology (4)
- [GIS150](#) - Spatial Thinking (1)
- [GIS250](#) - Spatial Analysis (3)
- [GIS255](#) - UAS-Based Mapping (2)
- [GIS350](#) - Web and Mobile GIS (2)
- [GIS355](#) - Remote Sensing (3)
- [HORT224](#) - Introductory Plant Identification (2)
- [HORT297R](#) - Practicum in Plant shop (1)
- [HORT320](#) - Plant Propagation (3)
- [HORT334](#) - Greenhouse Operations (3)
- [HORT455](#) - Nursery Management (2)
- [HORT460](#) - Cut Flower Crops (2)
- [HORT461](#) - Potted Plants (2)
- [MATH221B](#) - Biostatistics (3)
- [SPAN101](#) - Beginning Spanish I (4)
- [SPAN102](#) - Beginning Spanish II (4)

**Unspecified Electives**

26

Total Credits



- Take at least 26 credit(s) from any eligible university credits.

In addition to courses meeting the requirements for this program, students can take other courses offered by



# BYU-Idaho Academic Catalog

## Plant Science and Technology (Minor)

### Program Description



A group of courses (20-24 credits) designed to encourage focused learning in Plant Science and Technology, complementary to an integrated standard degree or as an element of an interdisciplinary studies degree.

### Program Code

243

### Program Notes



- No grade less than C- in Minor courses.
- No double counting of Minor courses.

### Program Course Requirements



#### Minor Core

17

Total Credits

- Take the following:
  - [AGRON301](#) - Soil Science (3)



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- [CHEM101](#) - Introductory Chemistry (3)

**Supplemental Courses****8**

Total Credits



- Take 8 credit(s) from:
  - [AGRON321](#) - Soil Fertility and Plant Nutrition (4)
  - [AGRON330](#) - Forage Crops (3)
  - [AGRON425](#) - Soil Management (3)
  - [AGRON440](#) - Crop Physiology (3)
  - [AGRON460](#) - Plant Pathology (3)
  - [AGTEC186](#) - Introduction to Precision Agriculture (2)
  - [AGTEC230](#) - Sensors and Electrical Systems (2)
  - [AGTEC301](#) - Engine and Tractor Power (3)
  - [AGTEC360](#) - Fluid Power Technology (3)
  - [AGTEC486](#) - Precision Agriculture (3)
  - [APS465](#) - Integrated Weed Management (3)

**Grand Total Credits: 25****Department**

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Department of Applied Plant Science



# BYU-Idaho Academic Catalog

## Pre-Profession (Cluster)

### Program Description

A cluster of courses (12-15 credits) designed to prepare students in Pre-Profession, supplemental to a major.

### Program Code

1200

### Program Course Requirements

#### Core Courses

8

Total Credits

- Take 8 credit(s) from:
  - [BIO180](#) - Introduction to Biology I (3)
  - [BIO180L](#) - Introduction to Biology I Lab (1)
  - [BIO181](#) - Introduction to Biology II (3)
  - [BIO181L](#) - Introduction to Biology II Lab (1)

#### Supplemental Courses

5

Total Credits

- Take 5 credit(s) from:





- CHEM101 Biochemistry I (3)

**Grand Total Credits: 13**

Department

Department of Biology

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# BYU-Idaho Academic Catalog

## Recreation Therapy (Cluster)

### Program Description

A cluster of courses (12-15 credits) designed to prepare students in Recreational Therapy, supplemental to a major.

### Program Code

1101

### Program Course Requirements

#### Core Courses

8

Total Credits

- Take 8 credit(s) from:
  - [BIO264](#) - Human Anatomy and Physiology I (3)
  - [BIO264L](#) - Human Anatomy and Physiology I Lab (1)
  - [BIO265](#) - Human Anatomy and Physiology II (3)
  - [BIO265L](#) - Human Anatomy and Physiology II Lab (1)

#### Supplemental Courses

4

Total Credits

- Take 4 credit(s) from:





- FOBNSST - Health Disparities (2)

**Grand Total Credits: 12**

Department

Department of Biology

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# BYU-Idaho Academic Catalog

## Small Business Innovation and Management (Certificate)

### Program Description



This certificate will prepare a student to understand the options for starting a new business, how to get funding and begin a business, and how to manage that business. In addition, students will start and operate a web-based business.

### Program Code

C157

### Program Learning Outcomes (PLOs)

1. Analyze and make business decisions using a framework for ethical decision making.
2. Give examples of different approaches for creating a small business.
3. Identify key success factors for launching a successful new venture.
4. Create an online business including building the website, choosing a host and domain name.
5. Install and use web analytics to help track the success of marketing efforts for the online business.

### Program Notes



- To be awarded an academic certificate independent of a bachelor's or an associate degree, a student must earn:





## Program Course Requirements



### Certificate Core

12

Total Credits



- Take the following:
  - [BUS200](#) - Small Business Management (3)
  - [BUS210](#) - Small Business Creation (3)
  - [BUS310](#) - Launching New Ventures (3)
  - [MKT353](#) - Web Business Creation (3)

**Grand Total Credits: 12**

## Department

Department of Business Management



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# BYU-Idaho Academic Catalog

## Small Business Innovation and Management (Minor)

### Program Description



This minor will complement a variety of majors across the university. The Small Business Innovation and Management minor will help students develop skills in problem framing, problem solving, risk management, innovation, and creativity. It will also help students prepare for careers as corporate, social, and small business entrepreneurs.

### Program Code

261

### Program Notes



- Recommendation: BUS 301 (also covers advanced writing GE requirement).
- BUS300, BUS302, and MKT301 courses are part of the integrated business core (IBC) experience where teams of students create and run a business on campus. IBC courses must all be taken together during the same semester.
- Minor NOT available to online students.

### Program Course Requirements



Core

24

Total Credits





- [BUS310](#) - Launching New Ventures (3)
- [MKT353](#) - Web Business Creation (3)
- Take the following courses together in the same semester  
AND
- Take the following:
  - [BUS300](#) - IBC Business Basics (3)
  - [BUS302](#) - IBC Business Leadership (3)
  - [MKT301](#) - IBC Marketing (3)
- AND
- Take 1 of the following:
  - [ACCTG180](#) - Survey of Accounting (3)
  - [ACCTG201](#) - Financial Accounting (3)

**Grand Total Credits: 24**

Department

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Department of Business Management

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# BYU-Idaho Academic Catalog

## Soil Management (Cluster)

### Program Description



A cluster of courses (12-15 credits) designed to prepare students in Soil Management, supplemental to a major.

### Program Code

1503

### Program Course Requirements



#### Core Courses

13

Total Credits



- Complete all of the following
  - Take the following:
    - [APS122](#) - Introduction to Plant Science (3)
    - [APS123](#) - Introduction to Plant Science Laboratory (1)
  - AND
  - Take 1 of the following:
    - [APS220](#) - Horticultural Soils (3)
    - [AGRON301](#) - Soil Science (3)
  - AND
  - Take 6 credit(s) from:





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**Grand Total Credits: 13**

Department

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Department of Applied Plant Science

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# BYU-Idaho Academic Catalog

## Tax Accounting: Business Majors (Cluster)

### Program Description



A cluster of courses (12-15 credits) designed to prepare students in Tax Accounting (for Business Majors), supplemental to a major.

### Program Code

2004

### Program Course Requirements



#### Core Courses

12

Total Credits



- Take the following:
  - [ACCTG301](#) - Intermediate Financial Accounting I (3)
  - [ACCTG302](#) - Intermediate Financial Accounting II (3)
  - [ACCTG321](#) - Income Taxation I (3)
  - [ACCTG322](#) - Income Taxation II (3)

**Grand Total Credits: 12**





# BYU-Idaho Academic Catalog

## Tax Accounting: for Non-Business Majors (Cluster)

### Program Description



A cluster of courses (12-15 credits) designed to prepare students in Tax Accounting, supplemental to a major.

### Program Code

2002

### Program Course Requirements



#### Core Courses

12

Total Credits



- Take the following:
  - [ACCTG201](#) - Financial Accounting (3)
  - [ACCTG202](#) - Managerial Accounting (3)
  - [ACCTG321](#) - Income Taxation I (3)
  - [ACCTG322](#) - Income Taxation II (3)

**Grand Total Credits: 12**

### Department

