# Department of Applied Plant Science

**Event Planning Cluster 1500**

**Take these courses:**
- AGRUN 232 Ag Sales and Merchandising 3
- HORT 325 Interiorscaping 2
- HORT 335 Flower Arranging 3
- HORT 338A Wedding Flowers Lab A 2
- HORT 338R Wedding Flowers 1-3

**Take 1 course:**
- APS 290R Special Problems 1-3
- HORT 287R Flower Center 1

**Total Credits 12**

---

**Horticulture 1501**

**Take 12 credits:**
- APS 299R Seminar (repeatable) .05
- APS 412 Landscape Pest Control 2
- APS 413 Pesticide Application 2
- HORT 105 Home Gardening 3
- HORT 201 Plant Culture 3
- HORT 230 Introduction to Architecture/Landscape Design 3
- HORT 252 Landscape Construction 4
- HORT 287R Flower Center (repeatable) 1
- HORT 311 Introduction to Arboriculture 2
- HORT 319 Landscape Management 3
- HORT 320 Plant Propagation 3
- HORT 321 Landscape Plant Materials 1 2
- HORT 322 Landscape Plant Materials 2 2
- HORT 324 Flower Identification 2
- HORT 325 Interiorscaping 2
- HORT 329 Irrigation 2
- HORT 334 Greenhouse Operations 3
- HORT 335 Flower Arranging 3
- HORT 336 Asian Design Influence 1
- HORT 337 European Design Influence 1
- HORT 338A Wedding Flowers Lab A 2
- HORT 338B Wedding Flowers Lab B 2
- HORT 338R Wedding Flowers 1-3
- HORT 340 Landscape Computer 2
- HORT 410 Turfgrass Management 3
- HORT 420 Advanced Propagation 3
- HORT 429 Irrigation 3
- HORT 430 Intermediate Landscape Design 3
- HORT 455 Nursery Management 2
- HORT 460 Cut Flower Production 2
- HORT 461 Potted Crop Production 2
- HORT 470 Landscaping with Fruit and Vegetables 2

**Total Credits 12**

---

**Natural Resources 1502**

**Take 4 courses:**
- BIO 225 Range Ecology 1 3
- BIO 302 Ecology 4
- BIO 325 Range Ecology 2 3
- BIO 455 Rangeland Inventory & Analysis Lab 3
- BIO 466 Rangeland Vegetation Manipulation & Improvement 3

**Total Credits 12**

---

**Soil Management 1503**

**Take these courses:**
- AGRON 220 Introduction to Soils 3
- AGRON 321 Soil Fertility and Plant Nutrition 3
- AGRON 325 Irrigation and Drainage 3
- AGRON 425 Soil Management 3

**Total Credits 12**

---

**Crop Production 1504**

**Take these courses:**
- AGRON 310 Tree, Fruit and Vegetable Management 3
- AGRON 330 Forage Crops 3
- AGRON 435 Potato Science 3
- AGRON 455 Cereal Science 3

**Total Credits 12**

---

**Crop Protection 1505**

**Take these courses:**
- AGRON 321 Soil Fertility and Plant Nutrition 3
- AGRON 325 Irrigation and Drainage 3
- AGRON 445 Crop Advisor Certification 2
- APS 412 Integrated Pest Management 2
- APS 413 Crop Protection 2

**Total Credits 12**

---

# GIS in Agriculture and Natural Resources 1506

**Take these courses:**
- AGTEC 286 Introduction to GIS 3
- AGTEC 474 Mechanical Systems Analysis 3
- AGTEC 486 Advanced GIS in Agriculture and Natural Resources 3

**Take one course:**
- CIT 225 Database Design and Development 3
- GEOG 240 Maps and Remote Sensing 3
- GEOG 340 Advanced GIS and Spatial Analysis 3

**Total Credits 12**

---

# Agriculture Technology 1507

**Take these courses:**
- AGTEC 320 Agricultural Machinery 3
- AGTEC 335 Electronic Systems Diagnostics and Repairs 4
- AGTEC 360 Agricultural Hydraulics 4
- AGTEC 474 Mechanical Systems Analysis 3

**Total Credits 14**

---

# GIS 6801

**Take this course:**
- GEOG 140 Introduction to GPS 1

**Take 1 course:**
- AGTEC 286 Introduction to GIS 3
- GEOG 230 Introduction to GIS 3

**Take one course:**
- MATH 221A Business Statistics 3
- MATH 221B Biostatistics 3
- MATH 221C Social Statistics 3

**Take 1 course:**
- GEOL 140 Introduction to GPS 1
- AGTEC 320 Agricultural Machinery 3
- GEOG 340 Introduction to GIS for Geoscientists 3

**Take 1 course:**
- CIT 111 Introduction to Databases 3
- CIT 160 Introduction to Programming 3
- COMM 130 Visual Media 3

**Total Credits 13**

---

# Department of Animal and Food Science

---

# Equine 1001

**Take these courses:**
- AS 220 Feeds and Nutrition 3
- AS 247 Animal Handling 3
- AS 340 Horse Production 4
- AS 425 Advanced Nutrition 3

**Total Credits 14**

---

# Animal Health 1002

**Take these courses:**
- AS 215 Anatomy/Physiology 4
- AS 234 Veterinary Parasitology 2
- AS 315 Animal Health 3

**Take one course:**
- AS 340 Horse Production 4
- AS 350 Small Animal Production 4
- AS 360 Beef Production 4
- AS 370 Dairy Production 4

**Total Credits 13**

---

# Animal Reproduction 1003

**Take these courses:**
- AS 330 Artificial Insemination 2
- AS 333 Livestock Genetics 3
- AS 336 Animal Reproduction 3
- AS 430 Advanced Reproduction 4

**Total Credits 12**

---

# Natural Resources 1004

**Take 4 courses:**
- BIO 225 Range Ecology 1 3
- BIO 302 Ecology 4
- BIO 325 Range Ecology 2 3
- BIO 455 Rangeland Inventory & Analysis Lab 3
- BIO 466 Rangeland Vegetation Manipulation & Improvement 3

**Total Credits 12**

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<thead>
<tr>
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<td>AS 150</td>
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<td>Dairy Production</td>
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| Animal Nutrition | 1011 |
| Take these courses: | |
| AGRON 330 | Forage Crops | 3 |
| AS 220 | Feeds and Nutrition | 3 |
| AS 425 | Advanced Nutrition | 4 |
| Chem 106 | General Chemistry | 4 |
| Total Credits | 14 |

| Beef Production | 1012 |
| Take these courses: | |
| AS 220 | Feeds and Nutrition | 3 |
| AS 360 | Beef Production | 4 |
| Take 5 - 7 credits: | |
| AS 247 | Animal Handling | 3 |
| AS 330 | Artificial Insemination | 2 |
| AS 333 | Livestock Genetics | 3 |
| AS 336 | Animal Reproduction | 3 |
| AS 355 | Principles of Meat Science | 4 |
| AS 425 | Advanced Nutrition | 4 |
| AS 430 | Advanced Reproduction | 4 |
| Total Credits | 12 |

| Human Nutrition | 1020 |
| Take these courses: | |
| NUTR 150 | Essentials of Human Nutrition | 3 |
| NUTR 200 | Nutrient Metabolism | 3 |
| CHEM 150* | Introduction to Organic and Biochemistry | 5 |
| NUTR 330* | Nutrition in the Life Cycle | 3 |
| NUTR 350* | Sports Nutrition | 3 |
| NUTR 400 | Nutritional Biochemistry | 3 |
| Total Credits | 12 |

| Food and Nutrition | 1021 |
| Take this course: | |
| NUTR 150 | Essentials of Human Nutrition | 3 |
| Take 1 course: | |
| CA 160 | Culinary Fundamentals | 3 |
| HFED 110 | Introductory Foods | 2 |
| Take 7 credits: | |
| CA 260* | Applied Culinary Fundamentals | 3 |
| CA 310* | Culinary Nutrition | 3 |
| FS 120 | Introduction to Food Service Sanitation | 2 |
| HFED 240* | Food Management | 2 |
| NUTR 200* | Nutrient Metabolism | 3 |
| NUTR 330* | Nutrition in the Life Cycle | 3 |
| Total Credits | 12 |

*Course requires a prerequisite. See course description for more information.

| Animal Production | 1010 |
| Take these courses: | |
| BIO 221 | Microbiology | 3 |
| BIO 222 | Microbiology Lab 1 | 1 |
| BIO 375 | Genetics and Molecular Biology | 3 |
| PH 105 | Applied Physics 1 | 4 |
| Take one course: | |
| BIO 180 | General Biology | 4 |
| BIO 208 | General Botany | 4 |
| Total Credits | 15 |

| Recreation Therapy (Recreation Management Majors) | 1101 |
| Take these courses: | |
| BIO 264 | Anatomy and Physiology 1 | 3 |
| BIO 264L | Anatomy and Physiology Lab 1 | 1 |
| BIO 265 | Anatomy and Physiology 2 | 3 |
| BIO 265L | Anatomy and Physiology Lab 2 | 1 |
| Take 4 credits: | |
| HS 280 | Medical Terminology | 2 |
| HS 294 | Sports Medicine | 3 |
| HS 349L | Sports Medicine Lab | 2 |
| HS 351 | Gerontology | 2 |
| Total Credits | 12 |

| Natural Resource (Recreation Management Majors) | 1102 |
| Take this course: | |
| BIO 202 | Natural Resource Management | 4 |
| Take 9 credits: | |
| BIO 225 | Range Ecology | 3 |
| BIO 307 | Wildlife Law | 3 |
| BIO 351 | Wildlife Management | 3 |
| BIO 423 | Natural Resource Policy | 3 |
| GEOG 230 | Introduction to GIS | 3 |
| GEOG 240 | Maps and Remote Sensing | 3 |
| GEOG 340 | Advanced GIS and Spatial Analysis | 3 |
| GEOL 440R | Applied GIS (Fall classes only) | 3 |
| Total Credits | 13 |

| Neuroscience (Psychology Majors) | 1103 |
| Take these courses: | |
| BIO 240 | Neurobiology | 4 |
| BIO 485 | Advanced Neuroscience | 4 |
| Take 4 credits: | |
| BIO 180 | General Biology | 4 |
| BIO 264 | Anatomy & Physiology 1 | 3 |
| BIO 264L | Anatomy & Physiology Lab 1 | 1 |
| BIO 265 | Anatomy & Physiology 2 | 3 |
| BIO 265L | Anatomy & Physiology Lab 2 | 1 |
| Total Credits | 12 |

| Biological Illustrations (Art Majors) | 1104 |
| Take these courses: | |
| BIO 208 | General Botany | 4 |
| BIO 460 | Human Anatomy | 4 |
| Take 7 credits: | |
| BIO 204 | Vertebrate and Invertebrate Strategies | 4 |
| BIO 209 | An Evolutionary Survey of Plants | 4 |
| BIO 210 | Plant Systematics | 3 |
| BIO 221 | General Microbiology | 3 |
| BIO 331 | General Entomology | 3 |
| BIO 380 | Histology | 4 |
| BIO 445 | Ichthyology | 3 |
| BIO 446 | Ornithology | 3 |
| BIO 447 | Mammalogy | 3 |
| Total Credits | 15 |

| Microbiology | 1105 |
| Take these courses: | |
| BIO 221 | General Microbiology | 3 |
| BIO 222 | General Microbiology Lab | 1 |
| OR |  |  |
| BIO 321 | Microbiology | 4 |
| Take 8-11 credits: | |
| BIO 410 | Immunology | 4 |
| BIO 411 | Medical Microbiology | 4 |
| BIO 412 | Virology | 4 |
| HS 370 | Epidemiology | 3 |
| Total Credits | 12 |
Biotechnology/Forensics 1106

Take these courses:
- BIO 180 Introduction to Biology 4
- BIO 375 Genetics 3
- BIO 377 Techniques in Biochemistry and Molecular Biology 3

Take one course:
- BIO 376 Cell and Molecular Biology 3
- CHEM 481 Biochemistry 4

Total Credits 13

Health Professions Prerequisites 1107

Take 12-15 credits:
- BIO 180 Introduction to Biology 1 4
- BIO 181 Introduction to Biology 2 4
- BIO 221 General Microbiology 3
- BIO 222 General Microbiology Lab 1
- BIO 321 Biology of Microorganisms 4
- CHEM 105 General Chemistry 1 4
- CHEM 106 General Chemistry 2 4
- CHEM 351 Organic Chemistry 1 4
- CHEM 352 Organic Chemistry 2 4
- PH 105 Introduction to Applied Physics 1 4
- PH 106 Introduction to Applied Physics 2 4

Total Credits 12

Exercise and Sports Science 1201

Take these courses:
- ESS 320 Motor Development 2
- ESS 347 Sports Conditioning 2
- ESS 375 Exercise Physiology 3
- ESS 375L Exercise Physiology Lab 1
- NUTR 150 Nutrition 3

Choose any ESS 100 course 4

Total Credits 12

Coaching (Non-education) 1202

Take these courses:
- ESS 335 Advanced Sports Psychology 3
- ESS 350 Evaluation and Administration 2
- ESS 375 Exercise Physiology 3
- ESS 375L Exercise Physiology Lab 1
- ESS 381 Strength Training Theory and Application 4

Take one course:
- ESS 341 Baseball Theory 2
- ESS 342 Basketball Theory 2
- ESS 343 Football Theory 2
- ESS 344 Track & Field Theory 2
- ESS 345 Volleyball Theory 2
- ESS 346 Wrestling Theory 2

Total Credits 15

Professional Health 1203

Take these courses:
- BIO 264 Anatomy & Physiology 1 3
- BIO 264L Anatomy & Physiology Lab 1
- ESS 320 Motor Development 2
- ESS 375 Exercise Physiology 3
- ESS 375L Exercise Physiology Lab 1
- HRHP 359 Introduction to Kinesiology and Biomechanics 3

Choose any ESS 100 course 4

Total Credits 14

Professional Training 1204

Take these courses:
- ESS 204 Aerobic Fitness Techniques 2
- ESS 347 Sports Conditioning 2
- ESS 375 Exercise Physiology 3
- ESS 375L Exercise Physiology Lab 1
- ESS 381 Strength Training Theory and Application 4
- HS 305 Health & Fitness Appraisal and Prescription 3

Total Credits 15

Aquatic Management 1205

Take these courses:
- ACCTG 201 Financial Accounting 3
- B 101 Principles of Business Management 3
- ESS 268 Water Safety Instruction 2
- ESS 367 Lifeguarding Instructor 2
- ESS 368 Aquatic Management 2

Total Credits 12

Inclusion 1206

Take these courses:
- CHILD 210 Child Development 3
- ESS 366 Adaptive Education Special Population 2
- RM 366 Adaptive Recreation Skills 3
- RM 370 Therapeutic Recreation 3

Take one course:
- ESS 100 Aerobic Fitness 1
- ESS 101 Water Aerobics 1
- ESS 102 Footwork, Agility, Plyometrics 1
- ESS 115 Military Physical Fitness 1
- ESS 121 Softball 1
- ESS 130 Body Weight Management 1
- ESS 160 Swimming Beginning 1
- ESS 161 Swimming Intermediate 1
- ESS 178 Weight Training 1
- ESS 179 Olympic Weight Training 1

Total Credits 12

Department of Health, Recreation and Human Performance

Pre-Profession 1200

Take these courses:
- BIO 180 Introduction to Biology 1 4
- BIO 181 Introduction to Biology 2 4

Take 5-7 credits:
- BIO 375 Genetics 3
- BIO 376 Cell and Molecular Biology 3
- BIO 460 Advanced Anatomy 4
- BIO 461 Principles of Physiology 5
- CHEM 481 Biochemistry 4

Total Credits 13

Exercise and Sports Science 1201

Take these courses:
- ESS 320 Motor Development 2
- ESS 347 Sports Conditioning 2
- ESS 375 Exercise Physiology 3
- ESS 375L Exercise Physiology Lab 1
- NUTR 150 Nutrition 3

Choose any ESS 100 course 4

Total Credits 12

Coaching (Non-education) 1202

Take these courses:
- ESS 335 Advanced Sports Psychology 3
- ESS 350 Evaluation and Administration 2
- ESS 375 Exercise Physiology 3
- ESS 375L Exercise Physiology Lab 1
- ESS 381 Strength Training Theory and Application 4

Take one course:
- ESS 341 Baseball Theory 2
- ESS 342 Basketball Theory 2
- ESS 343 Football Theory 2
- ESS 344 Track & Field Theory 2
- ESS 345 Volleyball Theory 2
- ESS 346 Wrestling Theory 2

Total Credits 15

Professional Health 1203

Take these courses:
- BIO 264 Anatomy & Physiology 1 3
- BIO 264L Anatomy & Physiology Lab 1 1
- ESS 320 Motor Development 2
- ESS 375 Exercise Physiology 3
- ESS 375L Exercise Physiology Lab 1
- HRHP 359 Introduction to Kinesiology and Biomechanics 3

Choose any ESS 100 course 4

Total Credits 14

Professional Training 1204

Take these courses:
- ESS 204 Aerobic Fitness Techniques 2
- ESS 347 Sports Conditioning 2
- ESS 375 Exercise Physiology 3
- ESS 375L Exercise Physiology Lab 1
- ESS 381 Strength Training Theory and Application 4
- HS 305 Health & Fitness Appraisal and Prescription 3

Total Credits 15

Aquatic Management 1205

Take these courses:
- ACCTG 201 Financial Accounting 3
- B 101 Principles of Business Management 3
- ESS 268 Water Safety Instruction 2
- ESS 367 Lifeguarding Instructor 2
- ESS 368 Aquatic Management 2

Total Credits 12

Inclusion 1206

Take these courses:
- CHILD 210 Child Development 3
- ESS 366 Adaptive Education Special Population 2
- RM 366 Adaptive Recreation Skills 3
- RM 370 Therapeutic Recreation 3

Take one course:
- ESS 100 Aerobic Fitness 1
- ESS 101 Water Aerobics 1
- ESS 102 Footwork, Agility, Plyometrics 1
- ESS 115 Military Physical Fitness 1
- ESS 121 Softball 1
- ESS 130 Body Weight Management 1
- ESS 160 Swimming Beginning 1
- ESS 161 Swimming Intermediate 1
- ESS 178 Weight Training 1
- ESS 179 Olympic Weight Training 1

Total Credits 12

*Check for course prerequisites

Outdoor Recreation 1207

Take these courses:
- ACCTG 201 Financial Accounting 3
- RM 300 Recreation Leadership 3

Take 4 credits:
- RM 223 A,F,K,L Skills Classes 2
- RM 223G Skills Classes 4
- RM 224 A,F Skills Classes 2
- RM 225 A,B,D,F Skills Classes 2
- RM 225 C Skills Classes 3

Take one course:
- BIO 352 Wildland Ecology and Range Plants 3
- COMM 352 Persuasion 3
- ESS 375 Exercise Physiology 3
- RM 423 Resource Management 3

Total Credits 13

Health and Wellness 1300

Take these courses:
- HS 320 Introduction to Communicable and Non-Communicable Diseases 3
- HS 420 Health Behavior Modules and Theories 2
- HS 472 Health Communications 3
- NUTR 150 Essentials of Human Nutrition 3

Take 1 course:
- HRHP 131 Personal Health and Fitness 2
- HS 331 Women’s Health Issues 3

Take 1 course:
- HS 222 Advanced First Aid 1
- HS 223 Wilderness First Aid 3

Total Credits 14

Industrial Health 1301

Take these courses:
- HS 310 Environmental Health 3
- HS 485 Toxicology 3
- HS 486 Occupational Safety and Risk Management 3
- HS 487 Introduction to Industrial Hygiene 3

Total Credits 12

Sports Medicine 1302

Take these courses:
- BIO 265 Anatomy & Physiology 2 3
- BIO 265L Anatomy & Physiology Lab 2 1
- HS 249 Sports Medicine 3
- HS 349L Sports Medicine Lab 1
- HS 355R Athletic Training Clinical Experience 1-3
- HRHP 359 Introduction to Kinesiology and Biomechanics 3

Total Credits 12

Public Health 1303

Take 1 course:
- HS 285 Hospital and Health Administration 3
- HS 360 Community and Public Health Administration 2

Take these courses:
- HS 310 Environmental Health 3
- HS 370 Epidemiology 3
- HS 420 Health Behavior Theories/Models 3
- MATH 221B Biostatistics 3

Total Credits 13
# Brigham Young University–Idaho 2013-2014

## Clusters

### Non-Nursing

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>NURSF 301</td>
<td>Family Nursing Skills-Adult</td>
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<tr>
<td>NURSF 302</td>
<td>Family Nursing Skills-Women’s Health</td>
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<td>NURSF 303</td>
<td>Family Nursing Skills-Children</td>
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### Department of Nursing

### General Recreation Management

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<tr>
<td>RM 200</td>
<td>Recreation Leadership</td>
<td>3</td>
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<tr>
<td>RM 304</td>
<td>Leisure in Society</td>
<td>3</td>
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<td>RM 320</td>
<td>Program Management</td>
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<td>RM 486</td>
<td>Legal Aspects and Risk Management of Leisure Services</td>
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### General Business

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<td>B 211</td>
<td>Business Fundamentals</td>
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<td>B 275</td>
<td>Business Law and Legal Environment</td>
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### Healthcare Administration

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<td>HS 285</td>
<td>Hospital and Health Services Administration</td>
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<td>HS 290</td>
<td>Planning, Implementing, and Evaluation</td>
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<td>MA 106</td>
<td>Medical Law and Ethics</td>
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<td>HS 360</td>
<td>Community and Public Health Administration</td>
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<td>HS 378</td>
<td>Healthcare Strategy</td>
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### College of Business and Communication

#### Department of Accounting

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<td>ACCTG 321</td>
<td>Income Tax 1</td>
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<td>ACCTG 344</td>
<td>Auditing</td>
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<td>ACCTG 483</td>
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#### General Accounting (For Business Majors)

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<td>ACCTG 344</td>
<td>Auditing</td>
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<td>ACCTG 356</td>
<td>Accounting Information Systems</td>
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### General Business

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<td>B 341</td>
<td>Marketing Management</td>
<td>3</td>
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<td>B 361</td>
<td>Operations Management</td>
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<tr>
<td>B 499A</td>
<td>Principles of Business Strategy</td>
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**No double counting of major, minor or cluster courses**
## Administrative Assistant 2103

**Take these courses:**
- B 129 Office Procedures 3
- B 240 Advanced Word Processing 3
- B 370 Human Resource Management 3

**Take 3 credits:**
- ACCTG 180 Survey of Accounting 3
- ACCTG 205 Accounting Software 2
- B 201 Introduction to Finance 3
- B 211 Business Fundamentals 1 4
- B 370 Human Resource Management 3
- CIT 110 Micro-Applications for Business 3
- CIT 230 Web Frontend Development 3
- COMM 130 Visual Media 3
- COMM 175 Communication Essentials 2
- COMM 310 Creating Online Media 3
- COMM 339 Event Management 3

**Total Credits 12**

## Real Estate (Non-Business Majors) 2106

**Take these courses:**
- ACCTG 180 Survey of Accounting 3
- DCM 100 Introduction to Architecture and Construction 3
- B 225 Fundamentals of Real Estate 3
- B 413 Real Estate 3

**Take 1 course:**
- DCM 120 Framing Systems 3
- CONST 210* Finishing Systems 3
- CONST 330* Construction Estimating 3
- CONST 350* Soils and Equipment 3

**Total Credits 12**

*Prerequisites need to be met

## Business Fundamentals 2109

**Take the following courses:**
- ACCTG 201 Financial Accounting 3
- B 211 Business Fundamentals 1 4
- ECON 150 Economic Principles and Problems - Micro 3

**Take one course:**
- ACCTG 205 Accounting Software 2
- ART 392 Business for the Professional Artist 2
- B 225 Fundamentals of Real Estate 3
- B 250 Web Business 1 3
- B 275 Business Law and the Legal Environment 3
- B 283 Small Business Creation 3
- B 301 Financial Management 3
- B 321 Organizational Effectiveness 3
- B 341 Marketing Management 3
- B 361 Production and Operations Management 3
- B 370 Human Resource Management 3
- B 413 Real Estate 3
- HS 285 Hospital and Health Administration 3

**Total Credits 12**

## Human Resource Management 2111

**Take this course:**
- B 370 Human Resource Management 3

**Take 9 credits:**
- B 321* Organizational Effectiveness 3
- COMM 150 Interpersonal Theory and Practice 3
- COMM 450 Conflict Management 3
- SOC 323 Race and Ethnic Relations 3

**Total Credits 12**

*Business majors cannot take B 321 as an option for this cluster

## Finance Cluster (Application Only, see Advising) 2112

**Take these courses as one 12-credit class during one semester:**

**Take these courses:**
- B 401 Advanced Financial Management 3
- B 410 Investments 3
- B 428 Real Estate Management 1
- B 435 Personal Finance 1

**Choose 1 of the following tracks:**

### Advanced Investments and Capital Markets

**Take these courses:**
- B 411 Advanced Investments 3
- B 424 Finance Law for Corporate and Advanced Investments 1

## Banking and Corporate Financial Management

**Take these courses:**
- B 424 Finance Law for Corporate and Advanced Investments 1
- B 432 Corporate Financing and Banking 3

## New Venture Financing

**Take these courses:**
- B 424D Legal Aspects of Financing New Ventures 1
- B 475 Financing New Ventures 3

**Total Credits 12**

## Supply Chain Management Cluster (Application Only, see Advising) 2113

**Take these courses as one 12-credit class during one semester:**

**Take these course:**
- B 461 Supply Chain Risk and Flexibility Management 3
- B 466 Global Sourcing 3
- B 468 Logistics Management 3
- B 478 Supply Chain Analysis and Modeling 3

**Total Credits 12**

## Marketing (Application Only, see Advising) 2114

**Take these courses as one 12-credit class during one semester:**

**Take these course:**
- B 439 Project Management 1
- B 443 Marketing Research Skills 2
- B 446 Consumer Behavior 2
- B 448 Marketing Law 1
- B 452 Sales and Negotiations 2
- B 453 Marketing Strategy Research 2

**Take 2 credits from:**
- B 451 Internet Marketing 2
- OR
- B 457 Retail Management 1
- and
- COMM 231A Basic Advertising Skills: Creative Development 1

**Total Credits 12**

## Entrepreneurship 2115

**Take 12 credits:**

**Take these courses:**
- B 183 Introduction to Entrepreneurship 3
- B 250 Web Business 3
- B 283 Small Business Creation 3
- B 383 Large Business Creation 3
- B 483 Entrepreneurial Management 3

**Total Credits 12**
### Department of Communication

**Advertising 2200**

**Take these courses:**
- COMM 130 Visual Media 3
- COMM 230 Advertising Principles and Practices 3
- COMM 330 Advertising Creative Development and Writing 3

**Take 3 credits:**
- COMM 322 New Media Strategies and Tactics 3
- COMM 380 Media Research Methods 3
- COMM 385 Media Strategy and Planning 3

**Total Credits 12**

---

**Public Relations 2205**

**Take these courses:**
- COMM 235 Public Relations Principles and Practices 3
- COMM 335 Public Relations Writing and Production 3

**Take 6 credits:**
- COMM 322 New Media Strategies and Tactics 3
- COMM 339 Events Management 3
- COMM 380 Media Research Methods 3
- COMM 385 Media Strategy and Planning 3

**Total Credits 12**

---

**Media Sales and New Ventures 2207**

**Take these courses:**
- COMM 320 New Media Content Creation 3
- COMM 322 New Media Strategies and Tactics 3
- COMM 332 Media Sales and Account Management 3

**Take 3 credits:**
- COMM 273 Professional Presentations 3
- COMM 280 Communication Research Fundamentals 3
- COMM 352 Persuasion 3

**Total Credits 12**

---

**Professional Presentations 2208**

**Take these courses:**
- COMM 102 Public Speaking 3
- COMM 130 Visual Media 3
- COMM 273 Professional Presentations 3
- COMM 352 Persuasion 3

**Total Credits 12**

---

**Visual Communication 2210**

**Take these courses:**
- COMM 130 Visual Media 3
- COMM 300 Digital Imaging 3
- COMM 310 Creating Online Media 3
- COMM 462 Media and Visual Media 3

**Total Credits 12**

---

**Communication Management 2211**

**Take these courses:**
- COMM 150 Interpersonal Theory and Practice 3
- COMM 250 Organizational Principles and Practices 3
- COMM 350 Group Dynamics 3
- COMM 450 Conflict Management and Negotiation 3

**Total Credits 12**

---

**Video 2212**

**Take this course:**
- COMM 297R Communication Practicum 1/AVID 1

**Take these courses:**
- COMM 260 Broadcast Media Principles and Practices 3
- COMM 360 Multimedia Video Journalism 3
- COMM 240 Newsgathering Principles and Practices 3
- COMM 265 Video and Film Production Essentials 3
- COMM 365 Short Film and Web-Video Producing 3
- COMM 465 Documentary and Corporate Video Production 3

**Total Credits 13**

---

**News/Journalism 2213**

**Take these courses:**
- COMM 111 Writing for Communication Careers 3
- COMM 240 Newsgathering Principles and Practices 3

**Take 6 credits:**
- COMM 340 Advanced Media Writing 3
- COMM 342 Editing Essentials 3
- COMM 360 Multimedia Video Journalism 3
- COMM 440 News in the 21st Century 3

**Total Credits 12**

### Department of Computer Information Technology

**Generic CIT 2500**

**Take these courses:**
- CIT 160 CIT Fundamentals 3
- CIT 230 Web Design 3
- CIT 240 Networking 3
- CIT 336 Web Development 3

**Total Credits 12**

---

**Programming 2501**

**Take these courses:**
- CIT 111 Introduction to Databases 3
- CIT 160 CIT Fundamentals 3
- CIT 260 Object Oriented Programming 1 3
- CIT 261 Mobile Application Development 3

**Total Credits 12**

---

**Networking 2502**

**Take these courses:**
- CIT 240 Networking 3
- CIT 241 Network Design 3
- CIT 353 Operating Systems 1 3
- CIT 370 Systems Security 3

**Total Credits 12**

---

**Web 2503**

**Take these courses:**
- CIT 111 Introduction to Databases 3
- CIT 230 Web Design 3
- CIT 336 Web Development 3

**Take 1 course:**
- COMM 130 Visual Media 3
- CS 371 Human-Computer Interaction 3

**Total Credits 12**

---

**Project Lifecycle 2504**

**Take these courses:**
- CIT 111 Introduction to Databases 3
- CIT 160 CIT Fundamentals 3
- CIT 380 Project Management 3
- CIT 485 Enterprise Applications 3

**Total Credits 12**

---

**CIT/ACCOUNTING 2505**

**Take these courses:**
- ACCTG 333 Advanced Spreadsheet Applications 3
- ACCTG 356 Accounting Information Systems 3
- CIT 111 Introduction to Databases 3
- CIT 160 CIT Fundamentals 3

**Total Credits 12**

### Department of Economics

**General Economics 2300**

**Take this course:**
- ECON 151 Economic Principles and Problems - Macro 3

**Take 1 course:**
- AGBUS 210 Agriculture Economics 3
- ECON 150 Economic Principles and Problems - Micro 3

**Take 2 courses:**
- ECON 215 Quantitative Methods 4
- ECON 255 Financial Analytics 3
- ECON 278 Statistics for Economists 3
- ECON 300 Managerial Economics 3
- ECON 330 Economic History and Thought 3
- ECON 358 International Economics 3
- ECON 381 Intermediate Macroeconomics 3

**Total Credits 12**

---

**Economics and Finance (For Business Majors Only) 2301**

**Take 12 credits:**
- ECON 255 Financial Analytics 3
- ECON 300 Managerial Economics 3
- ECON 358 International Economics 3
- ECON 453 Money, Banking and Financial Markets 3
- ECON 455 Financial Economics 3
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<td>AGBUS 420 Agribusiness Operations Management 3</td>
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<td>AGBUS 430 Agriculture Price Analysis 3</td>
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<td>AGBUS 435 Agribusiness Commodity Marketing 3</td>
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</table>
Department of Home and Family

Child Development

3000

Take this course:
CHILD 210 Child Development 3

Take 6 credits:
CHILD 300 Infant/Toddler Development 3
CHILD 310 Early Childhood Development 3
CHILD 320* Adolescent Development 3

Take 3 credits:
CHILD 340 Language, Literacy and Learning 2
FAM 120 Parenting Skills 1
FAM 160 Family Relations 3
FAM 220 Parenting 3
NURSF 110 Pregnancy 1
SOC 383 Juvenile Delinquency 3

Total Credits 12

Infant/Toddler

3001

Take these courses:
CHILD 210 Child Development 3
CHILD 300 Infant/Toddler Development 3
ECD 350 Early Childhood Development: Toddler Core Principles 3
ECD 350L Early Childhood Development Lab Experience With Toddlers 2
NURSF 110 Pregnancy 1

Total Credits 12

Early Childhood

3002

Take these courses:
CHILD 120 Infant and Toddlers 1
CHILD 150 Foundations of Early Childhood 3
CHILD 210 Child Development 3
CHILD 230 Curriculum for Young Children 3
CHILD 340* Language, Literacy and Learning 2

Total Credits 12

Family Studies

3003

Take these courses:
FAML 160 Family Relations 3
FAML 220 Parenting 3
FAML 300 Marriage 3

Take 3 credits:
CHILD 210 Child Development 3
FAML 100 The Family 3
FAML 110 Marriage Skills 1
FAML 120 Parenting Skills 1
FAML 200 Preparation for Marriage 2
FAML 360 Family Stress and Coping 3
FAML 400 Family Theories and Dynamics 3
FAML 420 The Helping Relationship 3
FAML 430 Family & Community Relations 3
FAML 460* Child and Family Advocacy 2
HFED 160 Home & Family Management 3
HFED 340 Money Management 3
NURSF 110 Pregnancy 1
SOC 311 Family Interaction 3

Total Credits 12

Sewing

3004

Take these courses:
HFED 207 Clothing Construction 1 2
HFED 245 Pattern Making 3
HFED 307 Advanced Sewing Construction 4
HFED 345 Fitting and Alterations 3
HFED 360 Textiles 3

Total Credits 15

The Home

3005

Take these courses:
HFED 140 Architecture and Interior Design 3
HFED 150 Practical Homemaking 2
HFED 160 Home and Family Management 3
HFED 221 Home Decor 2
HORT 103 Home Gardening 3

Total Credits 13

Home and Family Living

3006

Take these courses:
HFED 110 Introductory Foods 2
HFED 160 Home & Family Management 3
HFED 207 Clothing Construction 1 2
HFED 340 Money Management 3
NUTR 150 Essentials of Human Nutrition 3

Total Credits 13

*Course requires a possible prerequisite. See course description for more information.

Department of Psychology

No Double Counting of Cluster Courses - No Grade Less than C-

Psychology: Business

3100

Take these courses:
PSYCH 111 General Psychology 3
PSYCH 355 Industrial Organizational Psychology 3

Take 6 credits:
PSYCH 310 Culture and Gender 3
PSYCH 341 Personality 3
PSYCH 350 Social Psychology 3
PSYCH 365 Motivation and Emotion 3
PSYCH 376 Cognition 3

Total Credits 12

Psychology: Health Sciences

3101

Take these courses:
PSYCH 111 General Psychology 3
PSYCH 342 Abnormal Psychology 3

Take 6 credits:
PSYCH 201 Development Psychology Lifespan 3
PSYCH 322 Adult Development 3
PSYCH 365 Motivation and Emotion 3
PSYCH 384 Behavioral Neurobiology 3

Total Credits 12

Psychology: Parenting

3102

Take these courses:
PSYCH 111 General Psychology 3
PSYCH 201 Developmental Psychology Lifespan 3

Take 6 credits:
CHILD 210 Child Development 3
CHILD 320 Adolescent Development 3
PSYCH 240 Psychology of Effective Living 3
PSYCH 310 Culture and Gender 3
PSYCH 350 Social Psychology 3
PSYCH 361 Principles of Behavioral Learning 3
PSYCH 365 Motivation and Emotion 3

Total Credits 12

Psychology: Pre-Health Professions

3103

Take these course:
PSYCH 111 General Psychology 3
AND
PSYCH 342 Abnormal Psychology 3
OR
PSYCH 201 Development Psychology Lifespan 3

Take 6 credits:
BIO 240 Neurobiology 4
PSYCH 201 Development Psychology Lifespan 3
PSYCH 342 Abnormal Psychology 3
PSYCH 365 Motivation and Emotion 3
PSYCH 370 Sensation and Perception 3
PSYCH 384 Behavioral Neurobiology 3

Total Credits 12

Psychology: Recreation Management

3104

Take these course:
PSYCH 111 General Psychology 3
PSYCH 201 Development Psychology Lifespan 3
PSYCH 342 Abnormal Psychology 3

Take 3 credits:
PSYCH 240 Psychology of Effective Living 3
PSYCH 310 Culture and Gender 3
PSYCH 341 Personality 3
PSYCH 350 Social Psychology 3
PSYCH 365 Motivation and Emotion 3

Total Credits 12

Psychology: Sociology

3105

Take these courses:
PSYCH 111 General Psychology 3
PSYCH 350 Social Psychology 3

Take 6 credits:
PSYCH 201 Developmental Psychology Lifespan 3
PSYCH 310 Culture and Gender 3
PSYCH 322 Adult Development 3
PSYCH 341 Personality 3
PSYCH 342 Abnormal Psychology 3
PSYCH 365 Motivation and Emotion 3
PSYCH 376 Cognition 3

Total Credits 12
<table>
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<td><strong>Psychology: Research Methods</strong></td>
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<td><strong>Take these courses:</strong></td>
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<tr>
<td>CS 124 Introduction to Software Development</td>
<td>3</td>
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<tr>
<td>MATH 221C Social Science Statistics</td>
<td>3</td>
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<td>PSYCH 302 Research Methods</td>
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<td>SOC 340 Research Methods</td>
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| Introduction to Psychology              | 3107    |
| **Take these courses:**                 |         |
| MATH 221C Social Science Statistics     | 3       |
| PSYCH 111 General Psychology            | 3       |
| PSYCH 112 Career Development in Psychology | 1       |
| PSYCH 302 Research Methods              | 3       |
| PSYCH 311 History and Systems of Psychology | 3     |
| **Total Credits**                       | **13**  |

| Industrial Organizational Psychology    | 3108    |
| **Take these courses:**                 |         |
| PSYCH 111 Introduction to Psychology    | 3       |
| PSYCH 302 Research Methods              | 3       |
| PSYCH 355 Industrial Organization Behavior | 3     |
| **Take 1 course:**                      |         |
| B 212 Business Fundamentals             | 2       |
| MATH 221B Biostatistics                 | 3       |
| MATH 221C Social Science Statistics     | 3       |
| **Take 1 course:**                      |         |
| B 370 Human Resource Management         | 3       |
| COMM 250 Introduction to Organizational Comm. | 3 |
| COMM 380 Media Research Methods         | 3       |
| COMM 450 Conflict Management            | 3       |
| HS 390 Program Planning and Implementation | 3  |
| HS 486 Occupational Safety and Risk Management | 3     |
| PSYCH 350 Social Psychology             | 3       |
| **Total Credits**                       | **15**  |

Note: It is the students responsibility to take the proper prerequisite courses.

| Department of Sociology and Social Work | 3200    |
| Criminology                             |         |
| **Take this course:**                   |         |
| SOC 330 Criminology                     | 3       |
| **Take 9 credits:**                     |         |
| SOC 120 Introduction to Criminal Justice | 3      |
| SOC 206 Criminal Investigations          | 3       |
| SOC 206 Police in America                | 3       |
| SOC 355 Law and Society                  | 3       |
| SOC 383 Juvenile Delinquency             | 3       |
| SOC 395R Direct Study (Criminology related) | 1-3   |
| SOC 420 Drugs and Society                | 3       |
| SOC 440 Correction                       | 3       |
| **Total Credits**                       | **12**  |

| Sociology                               | 3201    |
| **Take 1 course:**                      |         |
| SOC 111 Introduction to Sociology       | 3       |
| SOC 112 Social Problems                  | 3       |
| **Take 9 credits:**                     |         |
| SOC 230 Sociology Explorations          | 3       |
| SOC 311 Family Interaction               | 3       |
| SOC 323 Race and Ethnic Relations        | 3       |
| SOC 360 Religions Impact on Society      | 3       |
| SOC 383 Juvenile Delinquency             | 3       |
| SOC 420 Drugs and Society                | 3       |
| **Total Credits**                       | **12**  |

| Department of Teacher Education         | 3300    |
| General Education                       |         |
| **Take these courses:**                 |         |
| ED 200 History and Philosophy of Education | 2     |
| ED 304 Educational Psychology           | 3      |
| **Take 7 credits:**                     |         |
| CHILD 210 Child Development             | 3       |
| ED 109 Introduction to Education        | 2       |
| ED 206 Technology and Teacher Productivity | 3     |
| ED 241 Elementary Early Field Experience | 3     |
| ED 242 Motivation and Management        | 2       |
| ED 312 Culture and Diversity            | 2       |
| ED 402 Linguistically Diverse Students - Assessment | 3 |
| **Any Secondary Content Methods**        | 2-3    |
| **Total Credits**                       | **12**  |

| Elementary Literacy                     | 3301    |
| **Take these courses:**                 |         |
| ED 200 History and Philosophy of Education | 2     |
| ED 344 Comprehensive Literacy           | 3       |
| ED 345 Comprehensive Literacy           | 3       |
| **Take 4 credits:**                     |         |
| ED 312 Culture and Diversity            | 2       |
| ED 346 Literacy Practicum               | 3       |
| ED 402 Linguistically Diverse Students - Assessment | 3 |
| ED 441 Language Arts Methods            | 2       |
| ENG 355 Children’s Literature           | 3       |
| **Total Credits**                       | **12**  |

| Educational/School Psychology           | 3302    |
| **Take these courses:**                 |         |
| ED 424 ECSE Assessment                  | 4       |
| SPED 310 Exceptional Students (P-6th Grade) | 3  |
| **Take 5 credits:**                     |         |
| ED 344 Comprehensive Literacy           | 3       |
| ED 345 Comprehensive Literacy           | 3       |
| ED 402 Linguistically Diverse Students  | 3       |
| SPED 422 Emotional and Behavioral Disorders | 2   |
| SPED 423 Autism Spectrum Disorders      | 3       |
| **Total Credits**                       | **12**  |

| Elementary Methods of Teaching          | 3303    |
| **Take these courses:**                 |         |
| CHILD 210 Child Development             | 3       |
| ED 200 History and Philosophy of Education | 2     |
| ED 242 Motivation and Management        | 2       |
| **Take 6 credits:**                     |         |
| ED 341 Elementary Art Methods           | 2       |
| ED 422 Elementary Music Methods         | 2       |
| ED 343 Elementary P.E. Methods          | 2       |
| ED 442 Elementary Math Methods          | 2       |
| ED 443 Elementary Science Methods       | 2       |
| ED 444 Elementary Social Studies Methods | 2     |
| **Total Credits**                       | **13**  |

| Education                               | 3305    |
| **Take these courses:**                 |         |
| ED 200 History and Philosophy of Education | 2     |
| ED 242 Motivation and Management        | 2       |
| ED 304 Development, Cognition, and Understanding | 3 |
| **Take 5 credits:**                     |         |
| CHILD 210 Child Development             | 3       |
| ED 109 Introduction to Education        | 2       |
| ED 206 Educational Technology           | 1       |
| **Any Secondary Content Methods**        | 2-3    |
| **Total Credits**                       | **12**  |

| **Secondary Method Content Courses**    |         |
| AGED 452 Methods of Teaching Agriculture | 3       |
| ART 414 Secondary Art Methods           | 3       |
| BIO 405 Teaching Methods for the Biological Sciences | 3 |
| CHEM 405 Chemistry Teaching Methods    | 2       |
| ENG 430 Teaching English in Secondary Schools | 3 |
| GEOL 405 Methods of Teaching Earth Science | 3 |
| HIST 405 Secondary Methods - Social Science | 3 |
| HFED 405 Methods of Teaching Family and Consumer Sciences | 3 |
| MATH 490 Secondary Education Mathematics Teaching Methods | 2 |
| MUSIC 487 Teaching Strategies           | 2       |
| PH 403 Methods of Physics Teaching      | 2       |
| SPAN 377 Spanish Teaching Methods       | 3       |
| TA 405 Theatre and Speech Methods       | 3       |
### Department of History/Geography/Political Science

#### Geography  4000

**Take these courses:**
- GEOG 101 Introduction to Physical Geography 3
- GEOG 101L Physical Geography Lab 1
- GEOG 120 Geography and World Affairs 3
- GEOG 230 Introduction to GIS 3
- GEOG 350 Cultural Geography 3

**Total Credits** 13

#### Geographic Information Systems (GIS)  4001

**Take these courses:**
- CIT 160 CIT Fundamentals 3
- CIT 225 Database Design and Development 3
- GEOG 240 Maps and Remote Sensing 3

**Take 1 course:**
- AGTEC 286 Introduction to Geographical Information Systems in Agriculture and Natural Resources 3
- GEOG 230 Introduction to GIS 3

**Take 1 course:**
- GEOG 340 Advanced GIS and Spatial Analysis 3
- GEOL 440R Applied GIS (Fall classes only) 3

**Total Credits** 15

#### American History  4002

**Take these courses:**
- HIST 101 Introduction to the Study of History 3
- HIST 260 United States History to 1820 3
- HIST 262 United States History 1820-1920 3
- HIST 264 United States History Since 1920 3
- HIST 300 Writing and Research in History 3

**Total Credits** 15

#### World History  4004

**Take these courses:**
- HIST 101 Introduction to the Study of History 3
- HIST 222 World History 1350-1789 3
- HIST 224 World History Since 1789 3
- HIST 300 Writing and Research in History 3

**Total Credits** 15

#### International Studies  4005

**Take these courses:**
- POLSC 170 International Politics 3
- POLSC 390 American Foreign Policy 3

**Take 1 course:**
- ANTH 101 Introduction to Anthropology 3
- GEOG 350 Cultural Geography 3
- INTST 342 Russian Culture 3
- INTST 344 Western Europe Culture 3
- INTST 345 Chinese Culture 3
- INTST 350 Latin American Culture 3

**Take 1 course:**
- HIST 310 Modern European History 3
- HIST 326 Modern Middle East 3
- HIST 330 The Far East 3
- HIST 335 Africa Since 1400 3
- HIST 340 Latin America 3

**Total Credits** 12

#### Political Science - American Politics  4006

**Take these courses:**
- POLSC 110 American Government 3
- POLSC 311 State and Local Government 3
- POLSC 314 The Executive Branch 3
- POLSC 315 The Legislative Branch 3

**Total Credits** 12

#### Political Science - International Politics  4007

**Take these courses:**
- POLSC 150 Foreign Government 3
- POLSC 170 International Politics 3
- POLSC 372 Advanced Theory of International Relations 3
- POLSC 390 American Foreign Policy 3

**Total Credits** 12

### Department of Languages and International Studies

#### Chinese Elementary*  4117

**Take these courses:**
- CHIN 101 Beginning Mandarin 1 4
- CHIN 102 Beginning Mandarin 2 4
- CHIN 201 Intermediate Mandarin 1 4

**Total Credits** 12

#### Chinese Fluent Speakers  4116

**Take these courses:**
- CHIN 101 Beginning Mandarin 1 4
- CHIN 102 Beginning Mandarin 2 4
- CHIN 201 Intermediate Mandarin 1 4

**Take 1 course:**
- CHIN 202 Intermediate Mandarin 2 4
- CHIN 301 Advanced Mandarin 1 3
- CHIN 302 Advanced Mandarin 2 3
- CHIN 345 Chinese Culture 3
- CHIN 347 Chinese Literature in Translation 3
- CHIN 377 Chinese Teaching Methods 3

**Total Credits** 15

#### French Elementary*  4118

**Take these courses:**
- FR 101 Beginning French 1 4
- FR 102 Beginning French 2 4
- FR 201 Intermediate French 1 4

**Total Credits** 12

#### French Fluent Speakers  4113

**Take these courses:**
- FR 101 Beginning French 1 4
- FR 102 Beginning French 2 4
- FR 201 Intermediate French 1 4

**Take 1 course:**
- FR 202 Introduction to French Literature 3
- FR 321 Advanced Grammar and Composition 3
- FR 377 French Teaching Methods 3
- FR 400 French Civilization and Culture 3
- FR 410 Masterpieces of Francophone Literature 3

**Total Credits** 15

#### German Elementary*  4120

**Take these courses:**
- GER 101 Beginning German 1 4
- GER 102 Second Semester German 4
- GER 201 Second Year German 4

**Total Credits** 12

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Clusters
Brigham Young University-Idaho 2013-2014
College of Language and Letters
German Fluent Speaker
Take these courses:
GER 101 Beginning German 1 4
GER 102 Second Semester German 4
GER 201 Second Year German 4
Take 1 course:
GER 202 Introduction to German Literature 3
GER 321 Advanced German and Composition 3
GER 377 German Teaching Methods 3
GER 400 German Civilization and Culture 3
GER 410 German Literature 3
Total Credits 15

Russian Elementary*
Take these courses:
RUSS 101 Beginning Russian 1 4
RUSS 102 Beginning Russian 2 4
RUSS 201 Intermediate Russian 1 4
Total Credits 12

Russian Fluent Speaker
Take these courses:
RUSS 101 Beginning Russian 1 4
RUSS 102 Beginning Russian 2 4
RUSS 201 Intermediate Russian 1 4
Take 1 course:
RUSS 202 Intermediate Russian 2 4
RUSS 301 Third Year Russian Part 1 3
RUSS 340 Russian Literature in Translation 3
RUSS 342 Russian Culture 3
RUSS 377 Russian Teaching Methods 3
Total Credits 15

Spanish Elementary*
Take these courses:
SPAN 101 Beginning Spanish 1 4
SPAN 102 Beginning Spanish 2 4
SPAN 201 Second Year Spanish 4
Total Credits 12

Spanish Fluent Speaker*
Take these courses:
SPAN 101 Beginning Spanish 1 4
SPAN 102 Beginning Spanish 2 4
SPAN 201 Second Year Spanish 4
Take 1 course:
SPAN 302* Advanced Readings in Hispanic Literature 3
SPAN 321 Advanced Grammar and Composition 3
Total Credits 15

Spanish Native Speaker*
Take this course:
SPAN 321 Advanced Grammar and Composition 3
Take 9 credits:
SPAN 325 Phonetics and Conversation 3
SPAN 339 Introduction to Literary Analysis 3
SPAN 350 Hispanic Civilization and Culture 3
SPAN 441 Masterpieces of Spanish Literature 3
SPAN 451 Masterpieces of Spanish-American Literature 3
Total Credits 12

Other Languages
Take these courses in one language of choice:
101 Language of Choice 4
102 Language of Choice 4
201 Language of Choice 4
Take 1 course:
LANG 321 Advanced Grammar in Languages 3
LANG 400 Civilization and Culture 3
LANG 410 Language and Literary Traditions 3
Total Credits 15

International Studies
Take these courses:
POLSC 170 International Politics 3
POLSC 390 American Foreign Policy 3
Take 1 course:
ANTH 101 Introduction to Anthropology 3
GEOG 350 Cultural Geography 3
INTST 342 Russian Culture 3
INTST 344 Western Europe Culture 3
INTST 345 Chinese Culture 3
INTST 350 Latin American Culture 3
Take 1 course:
HIST 310 Modern European History 3
HIST 326 Modern Middle East 3
HIST 330 The Far East 3
HIST 335 Africa Since 1400 3
HIST 340 Latin America 3
Total Credits 12

TESOL
Take these courses:
ED 312 Culture and Diversity 2
ED 313 Culture and Diversity Practicum 1
ED 402 Linguisticall or Diverse Students Assessment and Strategy 3
TESOL 200 Fundamentals of TESOL 3
TESOL 377 TESOL Teachings Methods' 3
Total Credits 12

Department of English

Reading for a Lifetime
Take these courses:
ENG 350R Themes in Literature 3
ENG 355 Children's Literature 3
ENG 356 Young Adult Literature 3
ENG 373 Shakespeare 3
Total Credits 12

Genre Study
Take these courses:
ENG 351 Fiction 3
ENG 352 Poetry 3
ENG 353 Drama 3
ENG 354 Nonfiction 3
Total Credits 12

Creative Writing
Take these courses:
ENG 218 Creative Writing 3
ENG 318R Advanced Creative Writing 3
Total Credits 12

Professional Writing & Editing
Take these courses:
ENG 252 Fundamentals of Research and Presentation 3
ENG 321 Technology for Professional Writers 3
ENG 326 Beginning Editing 3
ENG 452 Advanced Editing 3
Total Credits 12

Rhetoric and Composition
Take these courses:
ENG 325 Theory and Practice of Language 3
ENG 327 History of the English Language 3
ENG 354 Nonfiction 3
ENG 450 Rhetorical Studies 3
Total Credits 12

*Note for test takers. At least 1 course must be taken on campus, and a cluster cannot be comprised only of test credits.

Note: Any 12 credit language cluster that includes LANG 321 or beyond would also be acceptable for a pre-approved cluster. See the Language and Letters Advising Center for examples of this option.
### Humanities

#### Take 12 credits:

- HUM 201 The Arts in Western Culture: Pre-historic to Renaissance 3
- HUM 202 The Arts in Western Culture: Renaissance to Modern 3
- HUM 250 Critical Thinking and Analysis in the Arts 3
- HUM 316 American Humanities 3
- HUM 333 Spirituality in the Arts 3
- HUM 342 Humanities in the Islamic World 3
- HUM 376 The Classical Heritage 3
- HUM 385 Travel Studies 1-3
- HUM 497R Senior Seminar 3

Total Credits 12

### Philosophy

#### Take 12 credits:

- PHIL 110 Philosophical Reasoning 3
- PHIL 201 Ancient and Medieval Philosophy 3
- PHIL 202 Modern Philosophy 3
- PHIL 205 Critical Thinking and Logic 3
- PHIL 305 Symbolic Logic 3
- PHIL 313 Introduction to Ethics 3
- PHIL 314 History and Philosophy of Science 3
- PHIL 315 Philosophy of Religion 3
- PHIL 497R Topics in Philosophy 3

Total Credits 12

### Ancient Languages

#### Take 4 credits:

- GREEK 101 Ancient Greek 1 4
- GREEK 102 Ancient Greek 2 4
- HEB 101 Biblical Hebrew 1 3
- HEB 102 Biblical Hebrew 2 3
- LATIN 101 Latin 1 4
- LATIN 102 Latin 2 4

Total Credits 13

### English Language & Usage (for Humanities Majors only)

#### Take these courses:

- ENG 314 Advanced Research & Literary Analysis 3
- ENG 325 Theory and Practice of Language -- Grammar & Usage 3

#### Take 2 courses:

- COMM 102 Public Speaking 3
- ENG 218 Creative Writing 3
- ENG 252 Fundamentals of Research & Presentation 3
- ENG 321 Technology for Professional Writers 3
- ENG 326 Beginning Editing 3

Total Credits 12

---

**Department of Humanities and Philosophy**

**Literature**

#### Take this course:

- ENG 251 Fundamentals of Literary Interpretation 3

#### Take 3 courses:

- ENG 331 Medieval and Renaissance 3
- ENG 332 Neoclassic and Romantic 3
- ENG 333 Victorian and Modern 3
- ENG 334 Colonial and Romantic 3
- ENG 335 Realistic and Modern 3
- ENG 336 British & American Literature - Contemporary (1965 - Present) 3
- ENG 350R Themes in Literature 3
- ENG 351 Fiction 3
- ENG 352 Poetry 3
- ENG 353 Drama 3
- ENG 354 Nonfiction 3
- ENG 355 Children’s Literature 3
- ENG 356 Young Adult Literature 3
- ENG 370R Major Authors 3
- ENG 373 Shakespeare 3

Total Credits 12

**Introduction to English Studies**

#### Take these courses:

- ENG 251 Fundamentals of Literary Interpretation 3
- ENG 252 Fundamentals of Research and Presentation 3

#### Take 1 course:

- ENG 321 Technology for Professional Writers 3

#### Take 1 course:

- ENG 325 Theory of Language -- Grammar & Usage 3
- ENG 326 Editing 3
- ENG 327 History of English Language 3

Total Credits 12

**Introduction to English Studies**

#### Take these courses:

- ENG 251 Fundamentals of Literary Interpretation 3
- ENG 252 Fundamentals of Research and Presentation 3

#### Take 1 course:

- ENG 325 Theory of Language -- Grammar & Usage 3
- ENG 326 Editing 3

#### Take 1 course:

- ENG 325 Theory of Language -- Grammar & Usage 3
- ENG 326 Editing 3
- ENG 327 History of English Language 3

Total Credits 12
### Department of Music

#### Instrumental Music

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 101</td>
<td>Music and Humanities</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 171</td>
<td>Basic Musicianship</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 158</td>
<td>Applied Music Instruction</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 160</td>
<td>Private Lessons</td>
<td>2</td>
</tr>
</tbody>
</table>

**Take a minimum of 1 course for 2 credits:**

- MUSIC 158
- A.C.E., Z

**Take 4 semesters:**

- MUSIC 324 Jazz Combo
- MUSIC 325 Rhythmix Percussion
- MUSIC 327 RixStix Drumline
- MUSIC 328 Jazz Lab Band
- MUSIC 330 University Band
- MUSIC 331 Symphony Band
- MUSIC 333 Symphonic Band
- MUSIC 339 Baroque Ensemble
- MUSIC 340 University Orchestra
- MUSIC 341 String Chamber Music
- MUSIC 342A Symphony Orchestra Strings
- MUSIC 342B Symphony Orchestra Winds
- MUSIC 343A Chamber Woodwinds
- MUSIC 343B Chamber Brass
- MUSIC 345 Harp Ensemble
- MUSIC 346 Flute Ensemble
- MUSIC 348 Saxophone Ensemble

**Take a minimum of 2 semesters for 2 credits:**

- MUSIC 158
- A.C.E., Z

**Take 4 semesters:**

- MUSIC 324 Jazz Combo
- MUSIC 325 Rhythmix Percussion
- MUSIC 327 RixStix Drumline
- MUSIC 328 Jazz Lab Band
- MUSIC 330 University Band
- MUSIC 331 Symphony Band
- MUSIC 333 Symphonic Band
- MUSIC 339 Baroque Ensemble
- MUSIC 340 University Orchestra
- MUSIC 341 String Chamber Music
- MUSIC 342A Symphony Orchestra Strings
- MUSIC 342B Symphony Orchestra Winds
- MUSIC 343A Chamber Woodwinds
- MUSIC 343B Chamber Brass
- MUSIC 345 Harp Ensemble
- MUSIC 346 Flute Ensemble
- MUSIC 348 Saxophone Ensemble

**Total Credits:** 13

#### General Music

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSIC 101</td>
<td>Music and Humanities</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 171</td>
<td>Basic Musicianship</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 185</td>
<td>LDS Hymns and Doctrine</td>
<td>2</td>
</tr>
</tbody>
</table>

**Take 2 courses:**

- MUSIC 104 Group Vocal Instruction
- MUSIC 155 Introductory Vocal Methods

**Take these courses:**

- MUSIC 158A Music Lessons (may be repeated)

**Take a minimum of 4 semesters for 4 credits:**

- MUSIC 312M University Choir - Men
- MUSIC 312W University Choir - Women
- MUSIC 313 Women’s Glee
- MUSIC 315 Men’s Choir
- MUSIC 316 Women’s Choir
- MUSIC 317 Opera Workshop
- MUSIC 318 Vocal Union
- MUSIC 319 Collegiate Singers

**Total Credits:** 13

#### Vocal Music

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 104</td>
<td>Group Vocal Instruction</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 155</td>
<td>Introductory Vocal Methods</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 158D</td>
<td>Music Lessons</td>
<td>1</td>
</tr>
</tbody>
</table>

**Take these courses:**

- MUSIC 165A Diction for Singers
- MUSIC 171 Basic Musicianship
- MUSIC 256 Piano Skills
- MUSIC 308 Conducting

**Take 4 semesters:**

- MUSIC 312 M or W University Choir
- MUSIC 313 Women’s Glee
- MUSIC 315 Men’s Choir
- MUSIC 316 Women’s Choir
- MUSIC 317 Opera Workshop
- MUSIC 318 Vocal Union
- MUSIC 319 Collegiate Singers

**Total Credits:** 13

#### Department of Theatre

#### Theatre Arts Performance

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 121</td>
<td>Voice Diction</td>
<td>2</td>
</tr>
<tr>
<td>TA 123D</td>
<td>Orchestration</td>
<td>3</td>
</tr>
</tbody>
</table>

**Take 7 to 10 credits:**

- TA 223D or W Acting
- TA 225 Stage Dialects
- TA 235 Movement for Theatre
- TA 260R Theatre Practice
- TA 232 Readers Theatre
- TA 235 Interpreting and Storytelling
- TA 234 Actors and Emotion

**Total Credits:** 12

#### Theatre Arts Technical Theatre

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 126</td>
<td>Makeup</td>
<td>2</td>
</tr>
<tr>
<td>TA 219</td>
<td>Beginning Technical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TA 319R</td>
<td>Scene Painting</td>
<td>3</td>
</tr>
<tr>
<td>TA 320</td>
<td>Stage Lighting</td>
<td>2</td>
</tr>
<tr>
<td>TA 321</td>
<td>Introduction to Theatre Costumes Design</td>
<td>2</td>
</tr>
<tr>
<td>TA 390R</td>
<td>Special Studies in Theatre</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Credits:** 12
## Art - Art History

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 201</td>
<td>Art History 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 202</td>
<td>Art History 2</td>
<td>3</td>
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</table>

**Take 1 course:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 301</td>
<td>Art of the Ancient Near East and Egypt</td>
<td>3</td>
</tr>
<tr>
<td>ART 302</td>
<td>Greek and Roman Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 303</td>
<td>Medieval Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 304</td>
<td>Far Eastern Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 305</td>
<td>Meso-American Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 306</td>
<td>History of Design and Illustration</td>
<td>3</td>
</tr>
<tr>
<td>ART 307</td>
<td>History of Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 308</td>
<td>American Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 401</td>
<td>Italian Renaissance Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 402</td>
<td>Baroque Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 403</td>
<td>Nineteenth Century Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 404</td>
<td>Twentieth Century Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 407</td>
<td>Sacred Art: Art of the World’s Religions</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits:** 12

---

## Art - Graphic Design

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 130</td>
<td>Introduction to Graphic Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 230</td>
<td>Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 235</td>
<td>Graphic Design</td>
<td>3</td>
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</table>

**Take 1 course:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 331R</td>
<td>Information Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 335R</td>
<td>Identity Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 337R</td>
<td>Interaction Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 430R</td>
<td>Sequential Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 437R</td>
<td>Advanced Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 438R</td>
<td>Motion (Interactive)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits:** 12

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## Art - Fundamentals

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Introduction to Visual Arts</td>
<td>3</td>
</tr>
<tr>
<td>ART 110</td>
<td>Drawing 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 117</td>
<td>Design and Color</td>
<td>3</td>
</tr>
</tbody>
</table>

**Take 2 courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 210</td>
<td>Drawing 2</td>
<td>3</td>
</tr>
<tr>
<td>ART 212R</td>
<td>Head Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 250</td>
<td>Oil Painting 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 251</td>
<td>Watercolor 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 310</td>
<td>Expressive Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 312R</td>
<td>Figure Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits:** 12

---

## Art - Two Dimensional Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 110</td>
<td>Drawing 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 117</td>
<td>Design and Color</td>
<td>3</td>
</tr>
</tbody>
</table>

**Take 2 courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 210</td>
<td>Drawing 2</td>
<td>3</td>
</tr>
<tr>
<td>ART 212R</td>
<td>Head Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 250</td>
<td>Oil Painting 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 251</td>
<td>Watercolor 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 310</td>
<td>Expressive Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 312R</td>
<td>Figure Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits:** 12

---

## Art - Three Dimensional Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 110</td>
<td>Drawing 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 220</td>
<td>Ceramics 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 280</td>
<td>Sculpture 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 320</td>
<td>Ceramics 2</td>
<td>3</td>
</tr>
<tr>
<td>ART 380</td>
<td>Sculpture 2</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits:** 15

---

## Art - Photography

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 110</td>
<td>Drawing 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 117</td>
<td>Design and Color</td>
<td>3</td>
</tr>
</tbody>
</table>

**Take 1 course:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 160</td>
<td>Photography 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 260</td>
<td>Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 361</td>
<td>Digital Photography</td>
<td>3</td>
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</tbody>
</table>

**Take 1 course:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 307</td>
<td>History of Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 364R</td>
<td>Advanced Black and White Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 365R</td>
<td>Photography 3</td>
<td>3</td>
</tr>
<tr>
<td>ART 462R</td>
<td>Historical Processes</td>
<td>3</td>
</tr>
<tr>
<td>ART 463R</td>
<td>Documentary Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

**Photo cluster students may NOT take the following courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 362</td>
<td>Studio Lighting</td>
<td>3</td>
</tr>
<tr>
<td>ART 366R</td>
<td>Commercial Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 460R</td>
<td>Portrait Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits:** 15

---

All photo cluster students must own a digital SLR camera. There are to be no customized clusters in the photo area.
### Commercial Construction
(For Construction Management Majors Only)

**Take 12 Credits:**
- ARCH 270 Specifications 3
- CONST 250 Steel Structural Systems 3
- CONST 340 Fundamentals of Land Survey 3
- CONST 350 Soil and Equipment 3

**Total Credits**: 12

### Residential Construction
(For Construction Management Majors Only)

**Take 12 Credits:**
- ARCH 120 Computer Aided Design 1 3
- CONST 210 Finishing Systems 3
- CONST 300 Cabinetmaking 3
- CONST 340 Land Surveying 3

**Total Credits**: 12

### Cabinet and Furniture Making
(For Construction Management Non-Majors Only)

**Take These Courses:**
- CONST 100 Basic Woodworking 3
- CONST 200 Furniture Making 3
- CONST 300 Cabinetmaking 3

**Take 1 course:**
- DCM 140 Visual Thinking 3
- DCM 200 History of Interiors and Architecture 3
- HFED 140 Introduction to Architecture and Interior Design 3

**Total Credits**: 12

### Construction Management Business Management
(For Construction Management Majors Only)

**Take 1 Course:**
- ACCTG 180 Survey of Accounting 3
- ACCTG 201 Financial Accounting 3

**Enrichment - Take 3 courses:**
- B 101 Principles of Business Management 3
- B 211 Business Fundamentals 1 4
- B 225 Fundamentals of Real Estate 3
- B 283 Introduction to Entrepreneurship 3
- B 301 Financial Management 3
- B 321 Organizational Effectiveness 3
- B 370 Human Resources Management 3
- B 341 Marketing Management 3
- B 361 Production and Operations Management 3
- B 413* Advanced Real Estate 3
- ECON 150 Economic Principles and Problems - Micro 3
- MATH 221A Business Statistics 3

**Total Credits**: 12

*B 413 has a prerequisite of B 225

### Design Thinking and Innovation
(For Construction Management Majors Only)

**Take These Courses:**
- DCM 110 Design Thinking 3
- DCM 130 Design Relevance 3
- DCM 140 Visual Thinking 3
- DCM 300 Collaborative Design Studio 3

**Total Credits**: 12

### Construction Documents
(For Construction Management Majors Only)

**Take 12 Credits:**
- ARCH 120 Computer Aided Design 1 3
- ARCH 190 Building Information Modeling 1 3
- ARCH 270 Specifications 3
- ARCH 290 Building Information Modeling 2 3

**Total Credits**: 12

---

### Construction Management
(For Construction Management Non-Majors Only)

**Take 1 Course:**
- ACCTG 180 Survey of Accounting 3

**Enrichment - Take 3 courses:**
- B 101 Principles of Business Management 3
- B 211 Business Fundamentals 1 4
- B 225 Fundamentals of Real Estate 3
- B 283 Introduction to Entrepreneurship 3
- B 301 Financial Management 3
- B 321 Organizational Effectiveness 3
- B 341 Marketing Management 3
- B 361 Production and Operations Management 3
- B 413* Advanced Real Estate 3
- ECON 150 Economic Principles and Problems - Micro 3
- MATH 221A Business Statistics 3

**Total Credits**: 12

*B 413 has a prerequisite of B 225

---

### Automotive Technology
(For Construction Management Majors Only)

**Take 1 course:**
- AUTO 100 Automotive Maintenance 1 1
- AUTO 125 Automotive Major Essentials 1

**Take these courses:**
- AUTO 102 Automotive Maintenance 2 1
- AUTO 131 Automotive Electrical Systems 1 3
- AUTO 132 Automotive Engine Performance 1 3

**Take 4 credits:**
- AUTO 155 Steering, Suspension and Brakes 4
- AUTO 221 Air Conditioning & Heating 3
- AUTO 231 Automotive Electrical Systems 2 3
- AUTO 232 Automotive Engine Performance 2 3

**Total Credits**: 12

---

### Chemistry

**Take 12 credits:**
- CHEM 105 General Chemistry 4
- CHEM 106 General Chemistry 4
- CHEM 150* Introductory Organic and Biochemistry 5
- CHEM 220 Quantitative Analysis 5

**Total Credits**: 12

*Chem 150 cannot count with Chem 351 and/or Chem 352

**Take 12 credits:**
- CHEM 105 General Chemistry 4
- CHEM 106 General Chemistry 4
- CHEM 220 Quantitative Analysis 5

**Total Credits**: 12

---

### Animal Health Chemistry

**Take at least 12 credits:**
- CHEM 351 Organic Chemistry 4
- CHEM 352 Organic Chemistry 4

**Total Credits**: 12
### Geographical Information Systems Cluster for Geology Majors

**Take this course:**
- GEOL 440R Applications of GIS in Geology 3

**Take three courses:**
- CIT 111 Introduction to Databases 3
- CIT 160 CIT Fundamentals 3
- CS 124 Introduction to Software Development 3
- MATH 221B Biostatistics 3
- GEOG 240 Maps and Remote Sensing 3

**Total Credits 12**

### Mathematics Cluster for Geology Students

**Take 12 credits:**
- MATH 214 Multivariable/Vector Calculus 3
- MATH 215 Multivariable Calculus 4
- MATH 271 Elementary Differential Equations 2
- MATH 281 Introduction to Applied Mathematics 3
- MATH 316 Differential Equations with Linear Algebra 4
- MATH 341 Linear Algebra 3
- MATH 411 Numerical Analysis 3
- MATH 412 Scientific Computing 3
- MATH 472 Introduction to Partial Differential Equations 3

**Total Credits 12**

### Physics Cluster for Geology Students

**Take 12 credits:**
- PH 123 Principles of Physics 2 3
- PH 220 Principles of Physics 3 3
- PH 223 Engineering Physics 4
- PH 250 Intermediate Physics Lab 1
- PH 279 Modern Physics 3
- PH 291 Wave Physics 2
- PH 323 Solid State Physics 3
- PH 332 Classical Mechanics 4
- PH 333 Electricity & Magnetism 4
- PH 336 Advanced Physics Lab 2
- PH 385 Numerical Modeling in Physics 3

**Total Credits 12**

### Inorganic Chemistry Cluster for Geology Students

**Take 12 credits:**
- CHEM 106 General Chemistry 4
- CHEM 220 Quantitative Analysis 5
- CHEM 461 Physical Chemistry 3
- CHEM 462 Physical Chemistry 2
- CHEM 470 Inorganic Chemistry 3
- CHEM 471 Advanced Laboratory 3

**Total Credits 12**

### Organic Biochemistry Cluster for Geology Students

**Take 12 credits:**
- CHEM 106 General Chemistry 4
- CHEM 220 Quantitative Analysis 5
- CHEM 351 Organic Chemistry 4
- CHEM 352 Organic Chemistry 4
- CHEM 481 Biochemistry 4

**Total Credits 12**

### Engineering Cluster for Geology Students

**Take 12 credits:**
- ME 142 Engineering Computation 1
- ME 172 Visualization in Engineering Design 3
- ME 201 Engineering Mechanics: Statics 2
- ME 202 Strength of Materials 3
- ME 204 Engineering Mechanics: Dynamics 3
- ME 231 Manufacturing Processes 1 3

**Total Credits 12**

### Computer Cluster for Geology Students

**Take 12 credits:**
- CIT 160 CIT Fundamentals 3
- CIT 225 Database Design & Development 3
- CIT 240 Networking 3
- CIT 241 Network Design 3
- CIT 260 Object Oriented Programming 1 3
- CIT 360 Object Oriented Programming 2 3
- CS 124 Introduction to Software Development 3
- CS 165 Object Oriented Software Development 3
- CS 213 Web Engineering 1 3
- CS 235 Data Structures 3
- CS 246 Software Design & Development 3
- CS 248 Software Design and Development 3
- CS 250 Object Oriented Programming 1 3
- CS 252 Object Oriented Programming 2 3
- CS 371 Human-Computer Interaction 3
- CS 372 Software Design & Development 3
- CS 373 Human-Computer Interaction 3
- CS 460 Computer Communication & Networks 3
- ECEN 150 Electric Circuit Analysis 3
- ECEN 160 Foundations of Digital Systems 3

**Total Credits 12**

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### Notes
- Most geology and physics classes are only offered once each year. Create a graduation plan early and follow it.
### Technical Physics

**Technical Physics**  
*Take 12 Credits:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PH 121</td>
<td>Principles of Physics 1</td>
<td>3</td>
</tr>
<tr>
<td>PH 123</td>
<td>Principles of Physics 2</td>
<td>3</td>
</tr>
<tr>
<td>PH 150</td>
<td>Beginning Physics Lab</td>
<td>1</td>
</tr>
<tr>
<td>PH 220</td>
<td>Principles of Physics 3</td>
<td>3</td>
</tr>
<tr>
<td>PH 250</td>
<td>Intermediate Physics Laboratory for Physics and Physical Science</td>
<td>1</td>
</tr>
<tr>
<td>PH 279</td>
<td>Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PH 311</td>
<td>Physics by Inquiry I</td>
<td>3</td>
</tr>
<tr>
<td>PH 314</td>
<td>History/Philosophy of Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**  
12

### Physics Exposure

**Physics Exposure**  
*Take 14 credits:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PH 105</td>
<td>Introductory Applied Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PH 106</td>
<td>Introductory Applied Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PH 311</td>
<td>Physics by Inquiry I</td>
<td>3</td>
</tr>
<tr>
<td>PH 314</td>
<td>History/Philosophy of Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**  
14

### Physical Science

### Physical Science and Mathematics

**Physical Science and Mathematics**  
*Take 12 credits from at least 2 of the following areas:*

**Chemistry**
- Take any Chemistry class numbered 105 or higher 0-10  
  (Chem 150 and Chem 153 cannot be taken with Chem 351 and/or Chem 352)

**Physics**
- Take any Physics class numbered 105 or higher 0-10

**Geology**
- Take any Geology class numbered 111 and 111L or higher 0-10

**Mathematics**
- Take any Mathematics class numbered 111 or higher 0-10

**Total Credits**  
12

### GIS Cluster

**GIS Cluster**  
*Take this course:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>GEOL 140</td>
<td>Introduction to GPS</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 230</td>
<td>Introduction to GIS</td>
<td>3</td>
</tr>
<tr>
<td>MATH 221A</td>
<td>Business Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 221B</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 221C</td>
<td>Social Science Statistics</td>
<td>3</td>
</tr>
<tr>
<td>AGTEC 486</td>
<td>Advanced GIS in Agriculture and Natural Resources</td>
<td>3</td>
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<tr>
<td>GEOG 340</td>
<td>Advanced GIS and Spatial Analysis</td>
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<tr>
<td>GEOL 340</td>
<td>Introduction to GIS for Geoscientists</td>
<td>3</td>
</tr>
<tr>
<td>CIT 203</td>
<td>CIT Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CIT 220</td>
<td>Introduction to Databases</td>
<td>3</td>
</tr>
<tr>
<td>COMM 130</td>
<td>Visual Media</td>
<td>3</td>
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</tbody>
</table>

**Total Credits**  
13

### Mechanical Engineering

### Engineering Cluster

**Engineering Cluster**  
*Take 15 credits*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FDMAT 112</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>ME 101</td>
<td>Introduction to Mechanical Engineering</td>
<td>1</td>
</tr>
<tr>
<td>ME 142</td>
<td>Engineering Computation I</td>
<td>3</td>
</tr>
<tr>
<td>ME 172</td>
<td>Visualization in Engineering Design</td>
<td>3</td>
</tr>
<tr>
<td>ME 201</td>
<td>Engineering Mechanics: Statics</td>
<td>2</td>
</tr>
<tr>
<td>ME 202</td>
<td>Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>ME 204</td>
<td>Engineering Mechanics: Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 231</td>
<td>Manufacturing Processes 1</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**  
15

### Manufacturing Cluster

**Manufacturing Cluster**  
*Take these courses:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 172</td>
<td>Visualization in Engineering Design</td>
<td>3</td>
</tr>
<tr>
<td>ME 231</td>
<td>Manufacturing Processes 1</td>
<td>3</td>
</tr>
<tr>
<td>ME 331</td>
<td>Manufacturing Processes 2</td>
<td>3</td>
</tr>
<tr>
<td>ME 332</td>
<td>Advanced CNC</td>
<td>3</td>
</tr>
<tr>
<td>WELD 101</td>
<td>Welding Fundamentals</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**  
12

### Welding Cluster

**Welding Cluster**  
*Take these courses:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>WELD 101</td>
<td>Welding Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>WELD 123</td>
<td>Advanced Welding Processes</td>
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</table>

**Take 6 credits:*

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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ME 172</td>
<td>Visualization in Engineering Design</td>
<td>3</td>
</tr>
<tr>
<td>ME 231</td>
<td>Manufacturing Processes 1</td>
<td>3</td>
</tr>
<tr>
<td>WELD 120</td>
<td>Gas Tungsten Arc Welding</td>
<td>3</td>
</tr>
<tr>
<td>WELD 229</td>
<td>Code, Certification &amp; Inspection</td>
<td>3</td>
</tr>
<tr>
<td>WELD 280</td>
<td>Welding Fabrication</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**  
12

### Fabrication Cluster

**Fabrication Cluster**  
*Take these courses:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ME 172</td>
<td>Visualization in Engineering Design</td>
<td>3</td>
</tr>
<tr>
<td>ME 231</td>
<td>Manufacturing Processes 1</td>
<td>3</td>
</tr>
<tr>
<td>WELD 101</td>
<td>Welding Fundamentals</td>
<td>3</td>
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</tbody>
</table>

**Take 3 credits:*

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<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ME 331</td>
<td>Manufacturing Processes 2</td>
<td>3</td>
</tr>
<tr>
<td>ME 332</td>
<td>Advanced CNC</td>
<td>3</td>
</tr>
<tr>
<td>WELD 120</td>
<td>Gas Tungsten Arc Welding</td>
<td>3</td>
</tr>
<tr>
<td>WELD 123</td>
<td>Advanced Welding Processes</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**  
12
### Family History Research

**Take these courses:**
- FDREL 261 Introduction to Family History 2
- FHGEN 111 Introduction to Family History Research, Part 1: Record Groups and Methodology 3
- FHGEN 120 Internet and Computer Skills 3
- FHGEN 130 Paleography 3

**Take 1 course:**
- FHGEN 112 Introduction to Family History Research, Part Two: Analysis of Research Evidence 3
- FHGEN 160 Family and the Law 3
- FHGEN 211 Research Methodology, Part 1 3

**Total Credits:** 14

### Basic Accounting Certificate

**C 100**

**Take these courses:**
- ACCTG 180 Survey of Accounting 3
- ACCTG 205 Accounting Software 2
- B 220 Business Communication 3
- CIT 110 Micro-Applications for Business 3

**Take 1 course:**
- B 275 Business Law & Legal Environment 3
- ECON 150 Economic Principles & Problems - Micro 3

**Total Credits:** 14

### Administrative Assistant Certificate

**C 101**

**Take these courses:**
- ACCTG 205 Accounting Software 2
- B 129 Office Procedures 3
- B 220 Business Communication 3
- CIT 110 Micro-Applications for Business 3

**Take 1 course:**
- ART 130 Introduction to Graphic Design 3
- CIT 230 Page Layout & Graphics 3
- COMM 150 Interpersonal Theory & Practice 3

**Total Credits:** 14

### Professional Sales Certificate

**C 102**

**Take these courses:**
- ACCTG 180 Survey of Accounting 3
- B 101 Introduction to Business 3
- B 120 Consultative Sales/Customer Relations 3
- B 341 Marketing Management 3
- COMM 150 Interpersonal Theory & Practice 3

**Total Credits:** 14

### Web Media Certificate

**C 103**

**Take these courses:**
- ART 130 Introduction to Graphic Design 3
- CIT 110 Micro-Applications for Business 3
- CIT 230 Page Layout & Graphics 3

**Take 2 courses:**
- B 250 Web Business 1 3
- CIT 160 Introduction to Programming 3
- COMM 300 Digital Imaging 3

**Total Credits:** 15

### Home and Family Studies Certificate

**C 104**

**Take these courses:**
- CHILD 210 Child Development 3
- FAML 100 The Family 3

**Take 3 courses:**
- FAML 160 Family Relations 3
- FAML 220 Parenting 3
- HFED 160 Home and Family Management 3
- HS 131 Personal Health & Wellness 3

**Total Credits:** 15

### Business Fundamentals Certificate

**C 105**

**Take these courses:**
- ACCTG 201 Financial Accounting 3
- ACCTG 202 Managerial Accounting 3
- B 211 Business Fundamentals 1 4
- B 212 Business Fundamentals 2 4
- B 298R Beginning Internship 1-5
- ECON 150 Economics Principles and Problems - Micro 3
- ECON 151 Economics Principles and Problems - Macro 3

**Total Credits:** 21

### Entrepreneurship Certificate

**C 106**

**Take these courses:**
- B 183 Introduction to Entrepreneurship 3
- B 250 Web Business Creation 3
- B 283 Small Business Creation 3
- B 383 Large Business Creation 3
- B 483 Entrepreneurial Management 3

**Total Credits:** 15

### Family History Research Certificate

**C 107**

**Take these courses:**
- FDREL 261 Introduction to Family History 2
- FHGEN 111 Introduction to Family History Research, Part 1: Record Groups and Methodology 3
- FHGEN 120 Internet and Computer Skills 3
- FHGEN 130 Paleography 3

**Take 1 course:**
- FHGEN 112 Introduction to Family History Research, Part Two: Analysis of Research Evidence 3
- FHGEN 160 Family and the Law 3
- FHGEN 211 Research Methodology, Part 1 3

**Total Credits:** 14

### Information Systems Certificate

**C 108**

**Take 5 courses:**
- CIT 110 Introduction to Excel 3
- CIT 111 Introduction to Databases 3
- CIT 160 CIT Fundamentals 3
- CIT 230 Web Frontend Development 3
- CIT 240 Networking 3
- CIT 260 Object Oriented Programming 3

**Total Credits:** 15