

QUARTER GENERAL EDUCATION REQUIREMENTS

Students who attend USU for the first time during Fall 1998 or later are required to complete the University Studies program (see pages 74-82). Students who attended USU prior to Fall 1998 have the option of completing the General Education program or the new University Studies requirements.

Transfer students who have not received an AA or AS degree and who transfer to USU from other colleges and universities before Fall Semester 2000 will be allowed to articulate into either the former General Education program or into the University Studies program. Students needing semester courses to complete the former Quarter General Education requirements can use:

- a. semester courses approved for University Studies.
- b. semester courses which are directly equivalent to quarter courses approved for General Education.
- c. semester courses which their advisor determines to be generally equivalent to quarter courses approved for General Education.

In addition to the University Requirements listed at the beginning of this section of the handbook, students who graduate under the quarter system must also fulfill the American Institutions requirement listed below. Credits in this section are listed as quarter credits unless otherwise indicated.

American Institutions Requirement

All graduates are required to have an understanding of the fundamentals of the history, principles, form of government, and economic system of the United States. Students may meet this requirement in any one of the following ways: (a) a passing grade on a special examination; (b) a passing grade on the Advanced Placement Examination in American History; (c) the satisfactory completion of a major or minor in economics, history, political science, or American studies; (d) the satisfactory completion of one of the following courses: HIST 170, American Civilization (5 credits); POLS 110, United States Government and Politics (5 credits); ECON 200, Introduction to Macroeconomics (5 credits); or USU 130, U.S. Institutions (5 credits); or (e) satisfactory completion of a 5-credit-hour transfer course equivalent to one of the courses in (d).

USU Written Communication and General Education Requirements (46 credits minimum)

Specific Written Communication and General Education Requirements vary according to the student's Major. Each student is responsible to check the requirements for his or her Major. Students should make early contact with their Academic Advisor and understand the information in the *General Catalog* and on their Major

Requirement Sheet.

The purpose of the University is to help students acquire knowledge, skills, and attitudes that prepare them for a full life and a useful career.

Courses required for a Major program of study prepare students to be successful in their chosen profession.

The General Education Requirements help students expand their awareness of life and the world they live in by strengthening their learning skills, broadening their knowledge, and by helping them to integrate knowledge from different subject areas and gain a better understanding of cultural traditions.

Written Communication Requirement (WC) 6 credits (minimum) from the list below

All students must successfully complete a minimum of 6 credits of Written English Composition. At least 3 of these credits must be in 200-level courses (above freshman level) or in higher level approved courses if the student has had the appropriate prerequisites. This minimum 6 credit requirement may be met by completing English courses from the Written Communication (English Composition) list below. Part of this requirement may be filled by examinations given in accordance with policies developed by the Board of Regents and the USU Department of English. The CLEP or AP Tests may be used to fill 3 credits of this requirement at the 100 freshman level.

(Colleges and Departments may require more than 6 credits of English and may require specific additional courses to complete this requirement. See Major Requirement Sheet and advisor for specific courses allowed.)

Written Communication (English Composition) Courses (WC)

(See Major Requirement Sheet to find out which of these courses are required for your Major.)

- Engl 101 (WC). English Composition. (3)
- Engl 105 (WC). Vocational English. (3)
- Engl 111 (WC). Strategies of Writing. (3)
- Engl 200 (WC). Persuasive Writing. (3)
- Engl 201 (WC). Research Writing. (3)
- Honr 204H (WC). Writing Seminar. (3)

Semester Courses which may be used to fill Quarter General Education Written Communication Requirements:

- Engl 1010 (CL). Introduction to Writing: Academic Prose (3 sem. cr.)
- Engl 2010 (CL). Intermediate Writing: Research Writing in a Persuasive Mode (3 sem. cr.)

**General Education Requirements
(40 credits minimum)**

(1) Learning Skills Requirements (SK) - 10 Credits

Ten total credits including:

- a. At least one course from Group I, and
- b. Courses from at least 2 of the 6 subject areas listed below in Groups I and II.

Note: Colleges and Departments may require specific courses in this area. See your Major Requirement Sheet and Academic Advisor.

Learning Skills Courses (SK):

Group I—Students must take at least one course from this group in Math or Computer Literacy or Deductive Logic.

Subject Areas: (1-Math, 2-Computer Literacy, 3-Deductive Logic)

1. Mathematics

Math 101 (SK). Intermediate Algebra. (5)

Or any higher-level math course requiring Math 101 as a prerequisite, including Math 201 (SK) and 202 (SK), and Stat 201 (SK).

Semester Course which may be used to fill Quarter General Education Mathematics Learning Skills Requirement:

Math 1010. Intermediate Algebra. (3 semester credits)

2. Computer Literacy

BIS 140 (SK). Microcomputer Applications in Business. (3)

CS 150 (SK). BASIC Programming. (4)

CS 160 (SK). Elementary Computer Science, Algorithms, and Problem Solving. (4)

CS 170 (SK). Computer Science I. (4)

CS 171 (SK). Computer Science II. (3)

CS 172 (SK). Computer Science III. (3)

CS 241 (SK). FORTRAN Programming. (3)

CS 251 (SK). COBOL Programming. (3)

Semester Courses which may be used to fill Quarter General Education Computer Literacy Learning Skills Requirements:

BIS 1400. Microcomputer Applications in Business. (3 sem. cr.)

CS 1700. Introduction to Computer Science - CS 1. (3 sem. cr.)

CS 1710. Introduction to Computer Science - CS 1 Lab. (1 sem. cr.)

CS 1720 (QI). Introduction to Computer Science - CS 2. (3 sem. cr.)

CS 3410 (DSC/QI). Algorithm Development: JAVA/Internet. (3 sem. cr.)

CS 3500 (DSC/QI). Algorithm Development: Visual BASIC/Graphical User. (3 sem. cr.)

CS 3510 (DSC/QI). Algorithm Development: COBOL/Business. (3 sem. cr.)

3. Deductive Logic

Phil 210 (SK). Deductive Logic (5)

Semester Course which may be used to fill Quarter General Education Deductive Logic Learning Skills Requirement:

Phil 2200 (QI). Deductive Logic. (3 sem. cr.)

Group II—Learning Skills Courses

The remainder of the 10 credits in Learning Skills may be taken in Group I or in Group II, however, the 10 credits must include courses from 2 of the 6 subject areas.

Subject Areas: (4-Foreign Languages, 5-Library Information Retrieval, 6-American Sign Language)

4. Foreign Languages-101 or higher level (or 1010 or higher)

5. Library Information Retrieval

InsT 100 (SK). Use of Libraries and Learning Resources. (3)

Honr 100H (SK). Library Literacy. (2)

Semester Course which may be used to fill Quarter General Education Requirement:

InsT 1000. Information Literacy. (3 sem. cr.)

6. American Sign Language

ComD 338 (SK). Sign Language I. (3)

Semester Course which may be used to fill Quarter General Education Requirement:

ComD 2910 (CI). Sign Language I. (3 sem. cr.)

(2) Broadening Knowledge Requirements

All students must complete one of the two options shown below. **Students should check their Major Requirement Sheet and contact their Academic Advisor, Department, College, or Advising and Transition Services to determine which option they should complete for their Major.**

**Broadening Knowledge Requirement
Option I—Standard Program (30 credits)**

This option is required by some Majors at USU.

(Courses in the Major subject cannot be used to fill Broadening Knowledge Requirements.)

The courses in the Broadening Knowledge Requirements are divided into 4 Major Areas plus an Integrative Option Area. These 5 areas are:

1. Humanities and Arts (HU): Where aesthetic need, creative powers, and distinctive human talents are explored;

2. Social Sciences (SS): Which examines the behavior, institutions, and social structures of human beings;

3. Life Sciences (LS): Which explores the organization and vital functions of living organisms;

4. Physical Sciences (PS): Which emphasizes nature and workings of the universe;

5. Integrative Knowledge Option (IO): Courses which focus on the integration of knowledge from at least two of the four areas listed above.

The **30 credits** required for the **Broadening Knowledge Option I Requirements** are **distributed across** the **5 areas of Humanities and Arts (HU), Social Sciences (SS), Life Sciences (LS), Physical Sciences (PS), and Integrative Option (IO)**. Students should make sure they complete the number of credits required by their Major Area from approved lists in Humanities and Arts (HU), Social Sciences (SS), Life Sciences (LS), Physical Sciences (PS), and Integrative Option (IO). Students should consult with their Academic Advisor in their Department. **Engineering students should see pages 128-129 for their General Education requirements.**

Example: A student Majoring in the **Social Sciences (SS)** Area has a different distribution of credits than a student Majoring in the **Physical Sciences (PS)** Area.

All Academic Majors are located in one of the following four Broadening Knowledge Areas: **Humanities and Arts (HU)**, **Social Sciences (SS)**, **Life Sciences (LS)**, or **Physical Sciences (PS)**. The Broadening Knowledge Requirement Option I credit distribution is different for each of the 4 Major Areas (see credit distribution tables 1 and 2 on page 125).

**Broadening Knowledge Requirement
Option II—Liberal Arts and Sciences (LAS)
Area Studies Certificate (46 credits min.)**

This option is required or highly recommended by many majors and may be used for any major if approved by the major college and department. It offers students the systematic exposure to writing, thinking, interdisciplinary breadth, and in-depth study that even the most technical jobs of the twenty-first century will demand.

Students taking this option must complete all of the following requirements:

a. **A minimum of 46 total credits**, as shown in requirements B and C.

b. **LAS 125 (IO)** (Pathways to Knowledge) 3 credits. This is the Liberal Arts and Sciences Program (LAS) orientation course.

c. Complete **two** of the following LAS course **clusters** for a total of 43 credits minimum.

1. **Beauty Cluster (20 credits)**
2. **Civilization Cluster (27 credits)**
3. **Science and Society Cluster (25 credits)**
4. **Future Environments Cluster (27 credits)**
5. **Matter and Spirit Cluster (23 credits)**
6. **Any additional LAS cluster approved by the University.**

At graduation, students who have completed these Broadening Knowledge Option II LAS requirements will receive an area studies certificate. Students can obtain detailed requirements and advisement about this option from the Science/HASS Advising Center in Taggart Student Center 302, 797-3883, or by writing to Liberal Arts and Sciences, Utah State University, 0107 Old Main Hill, Logan UT 84322-0107.

Students should see their assigned Academic Advisor concerning overall program planning for their major.

List of Undergraduate Majors

(The following list shows each Major and its Broadening Knowledge classification by Major Area i.e. Humanities and Arts **(HU)** or Social Sciences **(SS)** or Life Sciences **(LS)** or Physical Sciences **(PS)**).

College of Agriculture

International Agriculture:
Options in Animal, Dairy and Veterinary Sciences, Plant Science, Agricultural Education, **LS**
Options in Soil Science, **PS**
Options in Agricultural Economics, **SS**
Agricultural Education (all options), **LS**
Agricultural Systems Technology, **LS**
Animal, Dairy and Veterinary Sciences (all majors and options), **LS**
Economics and Agricultural Economics (all majors and options), **SS**
Nutrition and Food Sciences (all majors and options), **LS**
Plants, Soils, and Biometeorology (all majors and major options), **LS**

College of Business

All majors and major options, **SS**

College of Education

Communicative Disorders and Deaf Education (all options), **SS**
Elementary Education (increased requirements meet requirements for the four major areas, **LS, PS, SS, HU**)
HPER:
Health Education Specialist major, **LS**
All other majors, **SS**
Instructional Technology (no BS degree programs)
Psychology (all major options), **SS**
Secondary Education (Note: All majors are associated with a program outside the department and will follow the major area of the other department.)
Special Education (all major options), **SS**

College of Engineering

All majors and major options, **PS**
(See pages 93-94 for Engineering General Education Requirements.)

College of Family Life

Family and Human Development (all major options), **SS**
Consumer Sciences (all major options), **SS**
Human Environments:
Apparel and Textiles major, **SS**
Interior Design major, **HU**
All other major options, **SS**
Nutrition and Food Sciences (all majors and major options), **LS**

College of Humanities, Arts and Social Sciences

Aerospace Studies (no degree)
Art (all major options), **HU**
English:
Standard English major and options, **HU**
English teaching major and options, **HU**
American Studies:
Social Science concentration, **SS**
Literature, **HU**
History (all majors and major options), **SS**
Journalism and Communication (all majors and major options), **SS**
Landscape Architecture and Environmental Planning (all majors and major options), **HU**
Languages and Philosophy (all majors and major options), **HU**
Liberal Arts and Sciences, **HU**
Music (all majors and major options), **HU**
Political Science (all majors and major options), **SS**
Sociology, Social Work and Anthropology (all majors and major options), **SS**
Theatre Arts (all majors and major options), **HU**

College of Natural Resources

All majors and major options satisfy the **LS** requirement except Geography, **SS**, and Watershed Science, **PS**.

College of Science

Biology (all majors and major options), **LS**
 Chemistry and Biochemistry (all majors and major options), **PS**
 Computer Science (all major options), **PS**
 Geology (all majors and major options), **PS**
 Mathematics and Statistics (all majors and major options), **PS**
 Physics (all majors and major options), **PS**

Honors Program (no degrees offered)

Broadening Knowledge Requirement–Option I (30 Credits Minimum)

Specific Credit Requirements by Major Areas

Table 1 and Table 2 below show how General Education Broadening Knowledge credits are distributed for each of the four Major Areas. Distribution of credits in the Broadening Knowledge Requirement is designed to provide students with a more balanced education. Students with Majors in the related areas of Humanities and Arts, and Social Sciences, are required to complete more credits in the Sciences (Life Sciences and Physical Sciences). Students with Majors in the Sciences (Life Sciences and Physical Sciences) are required to complete more credits in the Humanities and Arts, and Social Sciences.

Students in the Colleges of Agriculture, Business, Education, Family Life, Natural Resources, and Science should use Broadening Knowledge Requirement Credit Distribution Table 1.

Students in the College of Humanities, Arts and Social Sciences use Broadening Knowledge Requirement Credit Distribution Table 2.

Students in the College of Engineering follow the College of Engineering General Education Requirements shown on pages 128-129.

Colleges of Agriculture, Business, Education, Family Life, Natural Resources, and Science						
Broadening Knowledge Requirement Credit Distribution Table 1						
Broadening Knowledge Requirement Areas 30 credits required						
Major Areas	HU	SS	LS	PS	IO	Total Credits
Human. & Arts (HU)	0-5*	0-6	5-16	5-16	0-9	30
Social Sci. (SS)	0-6	0-5*	5-16	5-16	0-9	30
Life Sci. (LS)	5-16	5-16	0-5*	0-6	0-9	30

Phys. Sci. (PS)	5-16	5-16	0-6	0-5*	0-9	30
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* Outside courses taught by the Major.

College of Humanities, Arts and Social Sciences						
Broadening Knowledge Requirement Credit Distribution Table 2						
Broadening Knowledge Requirement Areas 30 credits required						
Major Areas	HU	SS	LS	PS	IO	Total Credits
Human. & Arts (HU)	5*	6	5-14	5-14	0-9	30
Social Sci. (SS)	6	5*	5-14	5-14	0-9	30

* Outside courses taught by the Major.

Approved Broadening Knowledge Courses

Humanities and Arts Courses (HU) Approved List (see Major Requirement Sheet and Academic Advisor for any specific courses that may be required).

- Art 101 (HU). Exploring Art. (3) (or HEnv 105)
 - Art 275 (HU). Survey of Western Art. (3)
 - Art 276 (HU). Survey of Western Art. (3)
 - Art 277 (HU). Survey of Western Art. (3)
 - ComD 270 (HU). Language, Hearing, and Speech Development. (5)
 - Engl 113 (HU). Great Literature of Europe. (3)
 - Engl 114 (HU). Great Literature of Britain. (3)
 - Engl 115 (HU). Great Literature of America. (3)
 - Engl 120 (HU). Great Books and Ideas. (3)
 - Engl 121 (HU). Great Books and Ideas. (3)
 - Engl 122 (HU). Great Books and Ideas. (3)
 - Engl/Hist 124 (HU). Introduction to Folklore. (3)
 - Engl 126 (HU). Mythology. (3)
 - HEnv 105 (HU). Design in Everyday Living. (3) (or ART 101)
 - Hist 201 (HU). Thinking Historically: Regions and Times. (5)
 - Honr 240H (HU). Arts in Interesting Times. (3)
 - LAEP 103 (HU). Introduction to Landscape Architecture. (3)
 - Phil 101 (HU). Introduction to Problems of Philosophy. (5)
 - Phil 111 (HU). Ethics. (4)
 - Phil 215 (HU). Aesthetics. (3)
 - Phil/LAS 337 (HU). Mind Sets. (3)
 - Musc 101 (HU). Enjoying Music. (3)
 - Musc 102 (HU). Fundamentals of Music. (3)
 - Musc 201 (HU). Masterpieces of Music. (3)
 - Musc 300 (HU). History of Jazz and Popular Music. (3)
 - Thea 101 (HU). Understanding Theatre. (5)
 - Thea 140 (HU). Exploring Performance Through Literature. (5)
 - Thea 201 (HU). Understanding Movies. (3)
 - USU 201 (HU). Civilization: Humanities. (5)
 - USU 202 (HU). Civilization: Creative Arts. (4)
- Semester Courses which may be used to fill Quarter General Education Humanities Requirements:**
- Art 1100 (BCA). Exploring Art. (3 sem. cr.)
 - Art 2710 (BHU). Survey of Western Art: Prehistoric to Medieval. (3 sem. cr.)
 - Art 2720 (BHU). Survey of Western Art: Renaissance to Post-Modern. (3 sem. cr.)
 - ComD 2500. Language, Speech, and Hearing Development. (3 sem. cr.)

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Engl 1030 (BHU). Understanding Literature. (3 sem. cr.)
Engl 3030 (DHA). Perspectives in Literature. (3 sem. cr.)
HEnv 1750 (BCA). Design in Everyday Living. (3 sem. cr.)
Hist/Engl/Anth 1710 (BHU). Introduction to Folklore. (3 sem. cr.)
LAEP 1030 (BCA). Introduction to Landscape Architecture. (3 sem. cr.)
Musc 1010 (BCA). Introduction to Music. (3 sem. cr.)
Musc 1110. Music Theory I. (3 sem. cr.)
Musc 3010 (DHA). Masterpieces of Music. (3 sem. cr.)
Musc 3020 (DHA). History of Jazz. (3 sem. cr.)
Phil 1010 (BHU). Introduction to Philosophy. (3 sem. cr.)
Phil 2400 (BHU). Ethics. (3 sem. cr.)
Phil 3810 (DHA). Aesthetics. (3 sem. cr.)
Thea 1010 (BCA). Understanding Theatre. (3 sem. cr.)
Thea 1020 (BCA). Introduction to Film. (3 sem. cr.)
Thea 1030 (BHU). Exploring Performance Through Literature. (3 sem. cr.)
USU 1320 (BHU). Civilization: Humanities. (3 sem. cr.)
USU 1330 (BCA). Civilization: Creative Arts (3 sem. cr.)

Social Sciences Courses (SS) Approved List (see Major Requirement Sheet and Academic Advisor for any specific courses that may be required).

Anth 101 (SS). Introduction to Anthropology. (5)
Anth 110 (SS). Human Origins. (5)
Anth 150 (SS). Peoples and Cultures of the World. (5)
BA 135 (SS). Introduction to Business. (3)
BIS 314 (SS). Managing Personal Finances. (3) (or HENV 255 or HENV 355)
Comm 121 (SS). Introduction to Mass Communications. (4)
Econ 200 (AI). Introduction to Macroeconomics. (5)
Econ 201 (SS). Introduction to Microeconomics. (3)
FHD 120 (SS). Marriage and the American Family. (3)
FHD 150 (SS). Human Growth and Development. (5) (or PSY 110 SS)
FHD 304 (SS). Human Sexuality and Family Relations. (3)
Geog 101 (SS). Human Geography. (5)
Geog 103 (SS). World Regional Geography. (5)
HEnv 355 (SS). Family Finance. (3)
or Henv 255 (SS). The Consumer and the Market. (3) (or BIS 314 SS)
Hist 104 (SS). Western Civilizations: Ancient and Medieval. (5)
Hist 105 (SS). Western Civilizations: Modern. (5)
Hist 170 (AI). American Civilization. (5)
MHR 311 (SS). Managing Organizations and People. (4)
PoIS 101 (SS). Government and the Individual. (4)
PoIS 110 (AI). United States Government and Politics. (5)
PoIS 210 (SS). Introduction to International Politics. (5)
PoIS 220 (SS). Comparative Politics. (5)
Psy 101 (SS). General Psychology. (5)
Psy 110 (SS). Human Development: General. (3-5) (or FHD 150 SS)
Psy 121 (SS). Psychology of Human Adjustment. (3)
Psy 140 (SS). Analysis of Behavior: Basic Principles. (4)
Soc 101 (SS). Introductory Sociology. (5)
Soc/Anth 102 (SS). American Culture. (3)
Soc 140 (SS). Modern Social Problems. (3) (or SW SS 105)
Spch 260 (SS). Interpersonal Communication. (3)
SW 105 (SS). Introduction to Social Welfare. (3) (or SOC 140 SS)
USU 130 (AI). U.S. Institutions. (5)
USU 203 (SS). Social Systems and Issues. (3)

Semester Courses which may be used to fill Quarter General Education Social Sciences Requirements:

Anth 1010 (BSS). Cultural Anthropology. (3 sem. cr.)
Anth 1020 (BLS). Biological Anthropology. (3 sem. cr.)
Anth 2100 (BSS). Peoples of the Contemporary World. (3 sem. cr.)
BA 1350. Introduction to Business. (3 sem. cr.)
BIS 3140 (QI). Managing Personal Finances. (3 sem. cr.)
Econ 1500 (BAI). Introduction to Economic Institutions, History, and Principles.
(3 sem. cr.)
Econ 2010. Introduction to Microeconomics. (3 sem. cr.)
FHD 1500 (BSS). Human Development Across the Lifespan. (3 sem. cr.)
FHD 2400 (BSS). Marriage and Family Relationships. (3 sem. cr.)
FHD 3110. Human Sexuality. (3 sem. cr.)
Geog 1030 (BSS). World Regional Geography. (3 sem. cr.)
Geog 2030 (BSS). Human Geography. (3 sem. cr.)
HEnv 2450 (BSS). The Consumer and the Market. (3 sem. cr.)
HEnv 3350 (DSS). Family Finance. (3 sem. cr.)
Hist 1040 (BHU). Western Civilization: Ancient/Medieval. (3 sem. cr.)
Hist 1050 (BHU). Western Civilization: Modern. (3 sem. cr.)
Hist 1700 (BAI). American Civilization. (3 sem. cr.)
Hist 2700 (BAI). United States to 1877. (3 sem. cr.)
Hist 2710 (BAI). United States 1877 - Present. (3 sem. cr.)

JCom 1000 (BSS). Introduction to Mass Communication. (3 sem. cr.)
MHR 3110 (DSS). Managing Organizations and People. (3 sem. cr.)
PoIS 1100 (BAI). U.S. Government and Politics. (3 sem. cr.)
PoIS 2100. Introduction to International Politics. (3 sem. cr.)
PoIS 2200 (BSS). Comparative Politics. (3 sem. cr.)
Psy 1010 (BSS). General Psychology. (3 sem. cr.)
Psy 1100. Dev. Psy.: Infancy and Childhood. (3 sem. cr.)
Psy 1210. Psychology of Human Adjustment. (3 sem. cr.)
Psy 1400. Analysis of Behavior. (3 sem. cr.)
Soc 1010 (BSS). Introductory Sociology. (3 sem. cr.)
Soc 1020. Social Problems. (3 sem. cr.)
Spch 2600 (CI). Interpersonal Communication. (3 sem. cr.)
SW 1050. Introduction to Social Welfare. (3 sem. cr.)
USU 1300 (BAI). U.S. Institutions. (3 sem. cr.)
USU 1340 (BSS). Social Systems and Issues. (3 sem. cr.)

Life Sciences Courses (LS) Approved List (see Major Requirement Sheet and Academic Advisor for any specific courses that may be required).

ADVS 120 (LS). Anatomy and Physiology of Animals. (5)
Biol 101 (LS). Biology and the Citizen. (5)
Biol 102 (LS). Biology and the Citizen Laboratory. (1)
Biol 105 (LS). Discovering Nature. (2)
Biol 106 (LS). Discovering Nature. (2)
Biol 125 (LS). General Biology I. (5)
Biol 257 (LS). Evolution. (3)
Eng 229 (LS). Insect Biology. (3)
FW 280 (LS). Conservation Biology. (3)
FW/RLR 284 (LS). General Ecology. (5)
Micb 111 (LS). Elementary Microbiology. (4)
Micb 112 (LS). Elementary Microbiology Laboratory. (1)
NFS 122 (LS). Nutrition for People. (3)
Phyl 103 (LS). Human Anatomy. (5)
or Phyl 130 (LS). Human Physiology. (5)
PISc 100 (LS). Introduction to Agricultural Plant Science. (4)

Semester Courses which may be used to fill Quarter General Education Life Sciences Requirements:

ADVS 2200. Anatomy and Physiology of Animals. (4 sem. cr.)
Biol 1010 (BLS). Biology and the Citizen. (3 sem. cr.)
Biol 1020 (BLS). Biology and the Citizen Laboratory. (1 sem. cr.)
Biol 1110. Elementary Microbiology. (4 sem. cr.)
Biol 1210 (BLS). Biology I. (3 sem. cr.)
Biology—one of:
Biol 2000. Human Physiology. (4 sem. cr.)
Biol 2010. Human Anatomy. (4 sem. cr.)
Biol 3010 (DSC). Evolution. (3 sem. cr.)
Biol 3050 (DSC). Insect Biology. (3 sem. cr.)
FW 1200 (BLS). Biodiversity: Its Conservation & Future. (3 sem. cr.)
FW/RLR 2200 (BLS). Ecology of Our Changing World. (3 sem. cr.)
NFS 1020 (BLS). Science & Appl. of Human Nutrition. (3 sem. cr.)
PISc 2000 (BLS). Plants, Genes and Agriculture. (3 sem. cr.)
USU 1310 (BSC). Integrated Science. (3 sem. cr.)
USU 1350 (BLS). Integrated Life Science. (3 sem. cr.)

Physical Sciences Courses (PS) Approved List (see Major Requirement Sheet and Academic Advisor for any specific courses that may be required).

Bmet 200 (PS). Introduction to Weather. (3)
Bmet 382 (PS). Regional Climatology. (3)
Engr 101 (PS). Introduction to Engineering. (2)
CS 101 (PS). Computers and Their Uses. (5)
Chemistry—one of:
Chem 101 (PS). Introduction to Chemistry. (5)
Chem 111 (PS). General Chemistry. (5)
Chem 121 (PS). Principles of Chemistry. (5)
Chem 122 (PS). Principles of Chemistry. (4)
Chem 124 (PS). Chemical Principles Laboratory. (1)
Chem 141 (PS). Elementary Organic Chemistry. (4)
Chem 142 (PS). Molecules and Life. (4)
Chem 144 (PS). General Chemistry Laboratory. (2)
Geog 113 (PS). Physical Geography. (5)
Geology—one of:
Geol 101 (PS). Introductory Geology. (5)
Geol 105 (PS). Environmental Geology. (5)
Geol 111 (PS). Physical Geology. (5)

- Geol 200 (PS). Earth History. (4)
 Physics—one of:
 Phyx 100 (PS). The Solar System. (3)
 Phyx 108 (PS). Stars and Galaxies. (3)
 Phyx 200 (PS). Astronomy. (3)
 Physics—one of:
 Phyx 101 (PS). Introductory Physics. (5)
 Phyx 111 (PS). General Physics. (5)
 Phyx 112 (PS). General Physics. (5)
 Phyx 113 (PS). General Physics. (5)
 Phyx 120 (PS). General Physics Survey. (5)
 Phyx 221 (PS). General Physics—Science. (5)
 Phyx 222 (PS). General Physics—Science. (5)
 Phyx 223 (PS). General Physics—Science. (5)
 Soil 200 (PS). Soils, Waters, and the Environment: An Introduction. (3)
 USU 200 (PS). Integrated Science. (5)

Semester Courses which may be used to fill Quarter General Education Physical Sciences Requirements:

- Bmet 2000 (BPS). Atmosphere and Weather. (3 sem. cr.)
 Bmet/Geog 3820 (DSC). Global Climatology. (4 sem. cr.)
 Chemistry—one of:
 Chem 1010 (BPS). Introduction to Chemistry. (3 sem. cr.)
 Chem 1110. General Chemistry I. (4 sem. cr.)
 Chem 1210. Principles of Chemistry I. (4 sem. cr.)
 Chem 1120 (BPS). General Chemistry II. (4 sem. cr.)
 Chem 1130. General Chemistry Laboratory. (1 sem. cr.)
 Chem 1220 (BPS). Principles of Chemistry II. (4 sem. cr.)
 Chem 1230. Chemical Principles Laboratory I. (1 sem. cr.)
 CS 1010 (BPS). Foundations of Computer Science. (3 sem. cr.)
 Geog/NR 1130 (BPS). Physical Geography. (3 sem. cr.)
 Geology—one of:
 Geol 1100 (BPS). Exploring the Changing Earth. (3 sem. cr.)
 Geol 1150 (BPS). Dynamic Earth. (4 sem. cr.)
 Geol 3100 (DSC). Natural Disasters. (3 sem. cr.)
 Geol 3200 (DSC). The Earth Through Time. (4 sem. cr.)
 Physics—one of:
 Phyx 1000 (BPS). Introductory Astronomy. (3 sem. cr.)
 Phyx 3030 (QI/DSC). The Universe. (3 sem. cr.)
 Phyx 1100 (BPS). Great Ideas in Physics. (3 sem. cr.)
 Phyx 1200 (BPS). Intro to Physics by Exploration. (4 sem. cr.)
 Phyx 2110. The Physics of Living Systems I. (4 sem. cr.)
 Phyx 2120 (BPS). The Physics of Living Systems II. (4 sem. cr.)
 Phyx 2210 (QI). Gen. Physics—Science & Engineering I. (4 sem. cr.)
 Phyx 2220 (QI). Gen. Physics—Science & Engineering II. (4 sem. cr.)
 Soil 2000 (BPS). Soils, Waters, and the Environment. (3 sem. cr.)
 USU 1310 (BSC). Integrated Science. (3 sem. cr.)
 USU 1360 (BPS). Integrated Physical Science. (3 sem. cr.)

**Integrative Option Courses (IO)
 Approved List (0-9 credits).**

Up to 9 credits may be selected from the following list. A student may not use more than one Integrative Option course taught by a department in the same major area as that of the student's major. (See Major Requirement Sheet and Advisor for any specific courses that may be required.)

- ADVS 130 (IO). Domestic Animals and Mankind. (5)
 ADVS 330 (IO). Animal Production and Public Policy. (3)
 Anth 210 (IO). Perspectives on Race. (3)
 Anth 231 (IO). Introduction to Archaeology. (5)
 Biol 205 (IO). Plants and Civilization. (3)
 Biol 308 (IO). Evolution and Environmental Issues. (4)
 Biol 310 (IO). Bioethics. (3)
 Biol 533 (IO). History of Biology. (3)
 BIS 305H (IO). Information Technology and the Future. (3)
 BIS 306H (IO). The World of Systems. (3)
 ECE/Phyx 260 (IO). Science of Sound. (5)
 Engl/Hist/Anth 526 (IO). Legends, Myths, and Folktales. (3)
 Engr 320 (IO). Technology and Human Values. (3)
 FW 250 (IO). World Wildlife. (3)
 FW 260 (IO). Oceanography. (4)
 Geog 171 (IO). Human Impact on Environment. (5)
 HEnv/Soc 238 (IO). Gender Roles in American Society. (3)
 HEP 250 (IO). Health and Wellness. (2)
 Hist/FW 395 (IO). Environmental History. (3)
 Honr 390 (IO). Independent Study. (1-5)

- LAS 125 (IO). Pathways to Knowledge. (3)
 LAS 325 (IO). World of Tomorrow. (3)
 Ling/Anth 340 (IO). An Introduction to Linguistics. (5)
 NFS 101 (IO). Food Fascinations and Fallacy. (3)
 NR 101 (IO). Natural Resources and the Future. (3)
 NR/Geog 511 (IO). Environmental Education. (4)
 Phyl 135 (IO). Brain and Behavior. (5)
 Phyx/MAE 216 (IO). Energy. (3)
 Phyx 318 (IO). Intelligent Life in the Universe. (3)
 RR 250 (IO). Wilderness in America. (3)
 Soil 400 (IO). Soil and Water Conservation. (5)
Semester Courses which may be used to fill Quarter General Education Integrative Option Requirements:
 ADVS 3300 (CI). Animal Production & Public Policy. (2 sem. cr.)
 Anth 1030 (CI/BSS). World Archaeology. (3 sem. cr.)
 Anth 3200 (CI/DSS). Perspectives on Race. (3 sem. cr.)
 Biol 3020 (DSC). Brain and Behavior. (3 sem. cr.)
 Biol 3040 (DSC). Plants and Civilization. (3 sem. cr.)
 Biol 3100 (CI). Bioethics. (3 sem. cr.)
 ECE 3260 (QI/DSC). Science of Sound. (3 sem. cr.)
 Engl/Hist/Anth 5700. Folk Narrative. (3 sem. cr.)
 FW/Geog 3000 (DSC). Oceanography. (3 sem. cr.)
 FW 3600. Living with Wildlife. (3 sem. cr.)
 Geog 1710. Human Impact on Environment. (3 sem. cr.)
 Geog/NR 5110. Environmental Education. (3 sem. cr.)
 HEnv 3280 (DSS). Economic Issues for Individuals and Families. (3 sem. cr.)
 HEP 2500. Health and Wellness. (2 sem. cr.)
 Honr 3900H. Independent Study. (1-5 sem. cr.)
 LAS 2020 (CI). Pathways to Thinking. (3 sem. cr.)
 LAS 2120 (QI). Pathways to Reasoning. (3 sem. cr.)
 Ling 4100. The Study of Language. (3 sem. cr.)
 NFS 3110 (DSC). Food, Technology, and Health. (3 sem. cr.)
 NR 1010 (BSS). Humans and the Changing Global Environment. (3 sem. cr.)
 Phyx 1020. Energy. (3 sem. cr.)
 Phyx 1030. Intelligent Life in the Universe. (3 sem. cr.)
 Soc 2500. Sociology of Gender. (3 sem. cr.)
 Soil 4000. Soil and Water Conservation. (4 sem. cr.)

**Broadening Knowledge Requirement—Option II
 (46 Credits Minimum) (2.5 GPA)**

For detailed information or to apply for the LAS Certificate, visit the Science/HASS Advisement Center in TSC 304.

Credit by Examination

Students may apply CLEP, Advanced Placement, and other approved examination credit toward the undergraduate degree in accordance with State Board of Regents' policy. It is possible for General Education coursework (including part of the Written Communication Requirement and all of the American Institutions requirement) to be fulfilled by examinations; however, students may elect to take General Education courses for personal and professional enrichment.

Students Transferring to Utah State University

If in compliance with current articulation agreements, General Education courses completed at any accredited institution of higher education in the State of Utah will fill General Education requirements, including Communication Skills. Where the designations are appropriate, courses are identified with the following prefixes: **SS, Social Sciences; LS, Life (Biological) Sciences; PS, Physical Sciences; HU, Humanities and Arts.**

Students with Associate of Science and Associate of Arts

degrees from Utah Institutions (or from other institutions with which USU has articulation agreements) are assumed to have completed the General Education requirements.

College of Engineering

Written Communication and General Education Requirements for Engineering Majors (BS Degrees) (40 credits, plus a minimum of 6 credits in Written Communication)

(Students in all Majors in the Department of Industrial Technology and Education complete the standard University General Education Broadening Knowledge Requirements for Majors in the Physical Sciences Area of Broadening Knowledge Requirement Credit Distribution Table 1. See Major Requirement Sheet and Academic Advisor.)

Note: Students in the College of Engineering who are Engineering Majors must satisfy Utah State University Written Communication and General Education requirements as well as the College of Engineering breadth and depth requirements described below. Students should carefully plan their General Education Program to ensure meeting both sets of requirements.

The Written Communication and General Education requirements for Engineering Majors in the College of Engineering are somewhat more restrictive than the general education program for the University due to accreditation standards imposed by ABET (Accreditation Board for Engineering and Technology). Students who complete the engineering program also satisfy University Written Communication and General Education requirements.

College of Engineering Written Communication Requirements (6 credits)

The Written Communication requirement is satisfied by completion of Engl 101 (English Composition) or Engl 111 (Strategies of Writing); and Engl 201 (Research Writing) or Honr 204 (Writing Seminar). Advanced Placement (AP) English credit or College Level Examination Program (CLEP) credit may be substituted for Engl 101. Engl 201 or Honr 204 may not be taken using P-D-F grading option.

General Education Requirements for Engineering Majors Only

Learning Skills Requirement (10 credits) including:
(a) at least one course from Group 1, and (b) courses from at least 2 of the 6 subject areas. (See Learning Skills Courses on page 123 of this handbook.)

College of Engineering Broadening Knowledge Requirement (30 credits) Credit Distribution				
Humanities and Arts (HU)	Social Sciences (SS)	Life Sciences (LS)	Physical Sciences (PS)	Integrative Option (IO)
5-16	5-16	0-6	0-5*	0-9**

*Outside the courses taught by the major. Required Chemistry and Physics courses satisfy this requirement.

**Integrative Option (IO) courses are not required, but may be used to satisfy up to 9 of the 30 credits required for the Broadening Knowledge Requirement. Only one IO course taught by a department in the Physical Sciences quadrant may be selected.

Transfer Students

Transfer students coming to USU with an Associate Degree from a Utah college or university have been deemed as meeting the USU General Education Requirements, but not necessarily the College of Engineering requirements. Students with transfer credits in General Education areas will need to have their transfer credit evaluated by the College of Engineering to determine if it will satisfy USU and/or College of Engineering General Education requirements.

College of Engineering General Education Breadth and Depth Requirement (28 credits minimum)

Breadth Requirement:
Complete at least one course in four of the five breadth and depth areas. Econ 200 is required.

Consult with the College of Engineering for semester equivalencies.

Breadth Areas (Areas 1-5)

1. Fine and Performing Arts

ART 101 HU (3)	THEA 101 HU (3)
ART 275 HU (3)	THEA 140 HU (3)
ART 276 HU (3)	THEA 201 HU (5)
ART 277 HU (3)	USU 202 HU (4)
LAEP 103 HU (3)	Humanities CLEP (3)
MUSC 101 HU (3)	AP English
MUSC 102 HU (3)	(score of 3, 4, or 5) (3)
MUSC 201 HU (3)	Literature Classes
MUSC 300 HU (3)	

2. Civilization and Social Institutions

ANTH 101 SS (5)	POLS 101 SS (4)
ANTH 102 SS (3)	POLS 110 AI (5)
ENGL 121 HU (3)	SOC 101 SS (5)
GEOG 101 SS (5)	USU 130 AI (5)
HIST 104 SS (5)	USU 201 HU (5)
HIST 105 SS (5)	SS/History CLEP (3-10)
HIST 170 AI (5)	AP History (score of 3, 4, or 5) (12)

Social Sciences transfer credit may also count in the Civilization and Social Institutions area.

Depth Requirement: Select a minimum of 12 credits in one of

the three depth areas. Three credits must be at the 200 level or above, and three credits must be at the 300 level or above. Credits earned as part of the Breadth Requirement are included in the 12 credits required for the Depth Requirement.

Depth Areas (Areas 3-5)

3. Impacts of Technology on Society

COMM 121	SS	(4)	FR 510	(3)
ECE 260	IO	(5)	GEOG 171	IO (5)
ECON 200*	AI	(5)	GEOG 351	(3)
ECON 201	SS	(3)	NR 101	IO (3)
ECON 401		(3)	POLS 380	(3)
ECON 500		(4)	POLS 418	(4)
ECON 501		(4)		

* ECON 200 is required.

4. International Perspectives

ANTH 150	SS	(5)	LING 390	(3)
ANTH 210	IO	(3)	POLS 210	SS (5)
ANTH 453		(4)	POLS 220	SS (5)
ECON 515		(3)	POLS 310	(3)

ECON 580		(3)	POLS 343	(3)
ENGL 122	HU	(3)	SOC 420	(3)
GEOG 103	SS	(5)		

Foreign language classes at the 200 level or above may also count in the International Perspectives area.

5. Human Behavior and Value Systems

ANTH 401		(3)	PHIL 327	(3)
COMM 417		(3)	PSY 101	SS (5)
ENGL 120	HU	(3)	PSY 121	SS (3)
FHD 304	SS	(3)	PSY 140	SS (4)
LAS 125	IO	(3)	SOC 140	SS (4)
MHR 311	SS	(4)	SOC 238	IO (3)
PHIL 101	HU	(5)	SOC 330	(3)
PHIL 111	HU	(4)	Humanities CLEP	
PHIL 215	HU	(3)	(6 cr. earned)	(3)
PHIL 326		(3)	AP English	
			(score of 3, 4, or 5)	(3)