

# ADVISOR HANDBOOK 2001-2002

## 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 35-41). 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/ CI	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)
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**Semester Course which may be used to fill Quarter General Education Deductive Logic Learning Skills Requirement:**

PHIL	2200	QI	Deductive Logic (3 sem. cr.)
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**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.)
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**6. American Sign Language**

COMD	338	SK	Sign Language I (3)
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**Semester Course which may be used to fill Quarter General Education Requirement:**

COMD	2910	CI	Sign Language I (3 sem. cr.)
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**(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) (see approved lists on pages 90-92). Students should check their Major Requirement Sheet for specific requirements and consult with their Academic Advisor in their Department. **Engineering students should see pages 93-94 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 90).

**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 304, 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 93-94.**

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

<b>Social Sci. (SS)</b>	0-6	0-5*	5-16	5-16	0-9	30
<b>Life Sci. (LS)</b>	5-16	5-16	0-5*	0-6	0-9	30
<b>Phys. Sci. (PS)</b>	5-16	5-16	0-6	0-5*	0-9	30

\* 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
<b>Human. &amp; Arts (HU)</b>	5*	6	5-14	5-14	0-9	30
<b>Social Sci. (SS)</b>	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.)
  - 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)
- POLS 101 SS Government and the Individual (4)
- POLS 110 AI United States Government and Politics (5)
- POLS 210 SS Introduction to International Politics (5)
- POLS 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)

29.	SOC	140	SS	Modern Social Problems (3) (or SW SS 105)
30.	SPCH	260	SS	Interpersonal Communication (3)
31.	SW	105	SS	Introduction to Social Welfare (3) (or SOC 140 SS)
32.	USU	130	AI	U.S. Institutions (5)
33.	USU	203	SS	Social Systems and Issues (3)

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

1.	ANTH	1010	BSS	Cultural Anthropology (3 sem. cr.)
2.	ANTH	1020	BLS	Biological Anthropology (3 sem. cr.)
3.	ANTH	2100	BSS	Peoples of the Contemporary World (3 sem. cr.)
4.	BA	1350		Introduction to Business (3 sem. cr.)
5.	BIS	3140	QI	Managing Personal Finances (3 sem. cr.)
6.	ECON	1500	BAI	Introduction to Economic Institutions, History, and Principles (3 sem. cr.)
7.	ECON	2010		Introduction to Microeconomics (3 sem. cr.)
8.	FHD	1500	BSS	Human Development Across the Lifespan (3 sem. cr.)
9.	FHD	2400	BSS	Marriage and Family Relationships (3 sem. cr.)
10.	FHD	3110		Human Sexuality (3 sem. cr.)
11.	GEOG	1030	BSS	World Regional Geography (3 sem. cr.)
12.	GEOG	2030	BSS	Human Geography (3 sem. cr.)
13.	HENV	2450	BSS	The Consumer and the Market (3 sem. cr.)
14.	HENV	3350	DSS	Family Finance (3 sem. cr.)
15.	HIST	1040	BHU	Western Civilization: Ancient/Medieval (3 sem. cr.)
16.	HIST	1050	BHU	Western Civilization: Modern (3 sem. cr.)
17.	HIST	1700	BAI	American Civilization (3 sem. cr.)
18.	HIST	2700	BAI	United States to 1877 (3 sem. cr.)
19.	HIST	2710	BAI	United States 1877 - Present (3 sem. cr.)
20.	JCOM	1000	BSS	Introduction to Mass Communication (3 sem. cr.)
21.	MHR	3110	DSS	Managing Organizations and People (3 sem. cr.)
22.	POLS	1100	BAI	U.S. Government and Politics (3 sem. cr.)
23.	POLS	2100		Introduction to International Politics (3 sem. cr.)
24.	POLS	2200	BSS	Comparative Politics (3 sem. cr.)
25.	PSY	1010	BSS	General Psychology (3 sem. cr.)
26.	PSY	1100		Dev. Psy.: Infancy and Childhood (3 sem. cr.)
27.	PSY	1210		Psychology of Human Adjustment (3 sem. cr.)
28.	PSY	1400		Analysis of Behavior (3 sem. cr.)
29.	SOC	1010	BSS	Introductory Sociology (3 sem. cr.)
30.	SOC	1020		Social Problems (3 sem. cr.)
31.	SPCH	2600	CI	Interpersonal Communication (3 sem. cr.)
32.	SW	1050		Introduction to Social Welfare (3 sem. cr.)
33.	USU	1300	BAI	U.S. Institutions (3 sem. cr.)
34.	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).**

1.	ADVS	120	LS	Anatomy and Physiology of Animals (5)
2.	BIOL	101	LS	Biology and the Citizen (5)
3.	BIOL	102	LS	Biology and the Citizen Laboratory (1)
4.	BIOL	105	LS	Discovering Nature (2)
5.	BIOL	106	LS	Discovering Nature (2)
6.	BIOL	125	LS	General Biology I (5)
7.	BIOL	257	LS	Evolution (3)
8.	ENT	229	LS	Insect Biology (3)
9.	FW	280	LS	Conservation Biology (3)
10.	FW/ RLR	284	LS	General Ecology (5)
11.	MICB	111	LS	Elementary Microbiology (4)
12.	MICB	112	LS	Elementary Microbiology Laboratory (1)
13.	NFS	122	LS	Nutrition for People (3)
14.	PHYL	103	LS	Human Anatomy (5)
or PHYL		130	LS	Human Physiology (5)
15.	PLSC	100	LS	Introduction to Agricultural Plant Science (4)

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

1.	ADVS	2200		Anatomy and Physiology of Animals (4 sem. cr.)
2.	BIOL	1010	BLS	Biology and the Citizen (3 sem. cr.)
3.	BIOL	1020		Biology and the Citizen Laboratory (1 sem. cr.)
4.	BIOL	1110		Elementary Microbiology (4 sem. cr.)
5.	BIOL	1210	BLS	Biology I (3 sem. cr.)
6.	Biology—one of:			

BIOL	2000			Human Physiology (4 sem. cr.)
BIOL	2010			Human Anatomy (4 sem. cr.)
7.	BIOL	3010	DSC	Evolution (3 sem. cr.)
8.	BIOL	3050	DSC	Insect Biology (3 sem. cr.)
9.	FW	1200	BLS	Biodiversity: Its Conservation & Future (3 sem. cr.)
10.	FW/RLR	2200	BLS	Ecology of Our Changing World (3 sem. cr.)
11.	NFS	1020	BLS	Science & Appl. of Human Nutrition (3 sem. cr.)
12.	PLSC	2000	BLS	Plants, Genes and Agriculture (3 sem. cr.)
13.	USU	1310	BSC	Integrated 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).**

1.	BMET	200	PS	Introduction to Weather (3)
2.	BMET	382	PS	Regional Climatology (3)
3.	ENGR	101	PS	Introduction to Engineering (2)
4.	CS	101	PS	Computers and Their Uses (5)
5.	Chemistry—one of:			
CHEM	101	PS		Introduction to Chemistry (5)
CHEM	111	PS		General Chemistry (5)
CHEM	121	PS		Principles of Chemistry (5)
6.	CHEM	122	PS	Principles of Chemistry (4)
7.	CHEM	124	PS	Chemical Principles Laboratory (1)
8.	CHEM	141	PS	Elementary Organic Chemistry (4)
9.	CHEM	142	PS	Molecules and Life (4)
10.	CHEM	144	PS	General Chemistry Laboratory (2)
11.	GEOG	PS	113	Physical Geography (5)
12.	Geology—one of:			
GEOL	101	PS		Introductory Geology (5)
GEOL	105	PS		Environmental Geology (5)
GEOL	111	PS		Physical Geology (5)
13.	GEOL	200	PS	Earth History (4)
14.	Physics—one of:			
PHYX	100	PS		The Solar System (3)
PHYX	108	PS		Stars and Galaxies (3)
PHYX	200	PS		Astronomy (3)
15.	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)
16.	SOIL	200	PS	Soils, Waters, and the Environment: An Introduction (3)
17.	USU	200	PS	Integrated Science (5)

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

1.	BMET	2000	BPS	Atmosphere and Weather (3 sem. cr.)
2.	BMET/ GEOG	3820	DSC	Global Climatology (4 sem. cr.)
3.	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.)
4.	CHEM	1120	BPS	General Chemistry II (4 sem. cr.)
5.	CHEM	1130		General Chemistry Laboratory (1 sem. cr.)
6.	CHEM	1220	BPS	Principles of Chemistry II (4 sem. cr.)
7.	CHEM	1230		Chemical Principles Laboratory I (1 sem. cr.)
8.	CS	1010	BPS	Foundations of Computer Science (3 sem. cr.)
9.	GEOG/ NR	1130	BPS	Physical Geography (3 sem. cr.)
10.	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.)
11.	GEOL	3200	DSC	The Earth Through Time (4 sem. cr.)
12.	Physics—one of:			
PHYX	1000	BPS		Introductory Astronomy (3 sem. cr.)
PHYX	3030	QI/ DSC		The Universe (3 sem. cr.)
13.	PHYX	1100	BPS	Great Ideas in Physics (3 sem. cr.)
14.	PHYX	1200	BPS	Intro to Physics by Exploration (4 sem. cr.)
15.	PHYX	2110		The Physics of Living Systems I (4 sem. cr.)

16. PHYX	2120	BPS	The Physics of Living Systems II (4 sem. cr.)
17. PHYX	2210	QI	Gen. Physics–Science & Engineering I (4 sem. cr.)
18. PHYX	2220	QI	Gen. Physics–Science & Engineering II (4 sem. cr.)
19. SOIL	2000	BPS	Soils, Waters, and the Environment (3 sem. cr.)
20. USU	1310	BSC	Integrated 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.)

1. ADVS	130	IO	Domestic Animals and Mankind (5)
2. ADVS	330	IO	Animal Production and Public Policy (3)
3. ANTH	210	IO	Perspectives on Race (3)
4. ANTH	231	IO	Introduction to Archaeology (5)
5. BIOL	205	IO	Plants and Civilization (3)
6. BIOL	308	IO	Evolution and Environmental Issues (4)
7. BIOL	310	IO	Bioethics (3)
8. BIOL	533	IO	History of Biology (3)
9. BIS	305H	IO	Information Technology and the Future (3)
10. BIS	306H	IO	The World of Systems (3)
11. ECE/ PHYX	260	IO	Science of Sound (5)
12. ENGL/ HIST/ ANTH	526	IO	Legends, Myths, and Folktales (3)
13. ENGR	320	IO	Technology and Human Values (3)
14. FW	250	IO	World Wildlife (3)
15. FW	260	IO	Oceanography (4)
16. GEOG	171	IO	Human Impact on Environment (5)
17. HENV/ SOC	238	IO	Gender Roles in American Society (3)
18. HEP	250	IO	Health and Wellness (2)
19. HIST/FW	395	IO	Environmental History (3)
20. HONR	390	IO	Independent Study (1-5)
21. LAS	125	IO	Pathways to Knowledge (3)
22. LAS	325	IO	World of Tomorrow (3)
23. LING/ ANTH	340	IO	An Introduction to Linguistics (5)
24. NFS	101	IO	Food Fascinations and Fallacy (3)
25. NR	101	IO	Natural Resources and the Future (3)
26. NR/ GEOG	511	IO	Environmental Education (4)
27. PHYL	135	IO	Brain and Behavior (5)
28. PHYX/ MAE	216	IO	Energy (3)
29. PHYX	318	IO	Intelligent Life in the Universe (3)
30. RR	250	IO	Wilderness in America (3)
31. SOIL	400	IO	Soil and Water Conservation (5)

**Semester Courses which may be used to fill Quarter General Education Integrative Option Requirements:**

1. ADVS	3300	CI	Animal Production & Public Policy (2 sem. cr.)
2. ANTH	1030	CI/ BSS	World Archaeology (3 sem. cr.)
3. ANTH	3200	CI/ DSS	Perspectives on Race (3 sem. cr.)
4. BIOL	3020	DSC	Brain and Behavior (3 sem. cr.)
5. BIOL	3040	DSC	Plants and Civilization (3 sem. cr.)
6. BIOL	3100	CI	Bioethics (3 sem. cr.)
7. ECE	3260	QI/ DSC	Science of Sound (3 sem. cr.)
8. ENGL/HIST/ ANTH	5700		Folk Narrative (3 sem. cr.)
9. FW/ GEOG	3000	DSC	Oceanography (3 sem. cr.)
10. FW	3600		Living with Wildlife (3 sem. cr.)
11. GEOG	1710		Human Impact on Environment (3 sem. cr.)
12. GEOG/ NR	5110		Environmental Education (3 sem. cr.)

13. HENV	3280	DSS	Economic Issues for Individuals and Families (3 sem. cr.)
14. HEP	2500		Health and Wellness (2 sem. cr.)
15. HONR	3900H		Independent Study (1-5 sem. cr.)
16. LAS	2020	CI	Pathways to Thinking (3 sem. cr.)
17. LAS	2120	QI	Pathways to Reasoning (3 sem. cr.)
18. LING	4100		The Study of Language (3 sem. cr.)
19. NFS	3110	DSC	Food, Technology, and Health (3 sem. cr.)
20. NR	1010	BSS	Humans and the Changing Global Environment (3 sem. cr.)
21. PHYX	1020		Energy (3 sem. cr.)
22. PHYX	1030		Intelligent Life in the Universe (3 sem. cr.)
23. SOC	2500		Sociology of Gender (3 sem. cr.)
24. 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. See 2000-2002 *General Catalog* (pages 48-49 and 60-61) for Credit Transfer Policy of Utah System of Higher Education. (See also pages 49-50 of this handbook.)

**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 88 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)**

- 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)			
- 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)**

- Impacts of Technology on Society**

COMM 121	SS	(4)	FR 510		(3)
ECE 260	IO	(5)	GEOG 171	IO	(5)

