

Associate of Science – Transfer Programs

The Associate of Science degree is a transfer degree that fulfills the requirements for completion of the first two years of a baccalaureate degree at most four-year colleges and universities. Students are encouraged to discuss their transfer intentions with a Terra advisor early in their Terra experience to assure that the correct courses are selected to meet the specific requirements of the receiving college or university.

The Associate of Science degree is appropriate for students who plan to transfer to a Bachelor of Science or related program. These include engineering, business, mathematics, natural sciences, pre-allied health, and technology.

The Associate of Science degree requires a minimum of 60 semester credit hours for graduation. These hours are composed of general education courses, a capstone course, a minimum of 12 hours in an area of concentration, and enough electives to complete the 60 hour requirement. The general education courses are in the areas of English, arts and humanities, mathematics, natural and physical sciences, and the social and behavioral sciences. More information on the Associate of Science program may be obtained from an advisor.

Requirements

Orientation

Any student who begins coursework toward an Associate of Science degree in fall 2006 or after will be required to complete the Orientation course.

	Credit Hrs.
GEN1000 Orientation	1

English Composition/ Oral Communications

Nine credit hours are required from the following list:

ENG 1050* College Composition I	3
(ENG 1020 may be substituted for ENG 1050)	
ENG 1060* College Composition II	3
ENG 1900 Technical Writing for Business and Industry	3
SPE 2010 Effective Speaking	3

*Required

Arts and Humanities

Six credit hours required from at least 2 different discipline areas:

ART 1010 World Art History I	3
ART 1030 World Art History II	3
ART 1050 Art Appreciation	3
ENG 1850 Introduction to Literature	3
ENG 2630 Non-Western Literature	3
ENG 2640 British Literature	3
ENG 2660 American Literature	3
HIS 1010 Western Civilization I	3
HIS 1020 Western Civilization II	3
HIS 1050 American History I	3
HIS 1060 American History II	3
HUM 1010 Critical Thinking	3
HUM 1410 Introduction to Theatre	3
HUM 2010 Introduction to Humanities	3
HUM 2550 Shakespeare on Film	3
MUS 1010 Music Appreciation	3
MUS 2110 History and Literature of Music I	3
MUS 2130 History and Literature of Music II	3
PHL 1010 Introduction to Ethics	3

Mathematics

Five credit hours are required from the following list:

MTH 2210 Statistics	3
MTH 2310 College Algebra	3
MTH 2320 College Trigonometry & Analytic Geometry	3
MTH 2350 Precalculus	4
MTH 2510 Calculus and Analytic Geometry I	5

Natural and Physical Sciences

Ten credit hours are required including a lab course or a course with a laboratory component:

BIO 1070† Environmental Science I	3
BIO 1080† Environmental Science II	3
BIO 1095† Environmental Science Lab	1
BIO 1200 Intro to Anatomy & Physiology	3
BIO 1210 Anatomy & Physiology I	4
BIO 1220 Anatomy & Physiology II	4
BIO 2010 Biology I	4

Natural and Physical Sciences (cont.)

	Credit Hrs.
BIO 2015 Biology Lab I	1
BIO 2020 Biology II	4
BIO 2025 Biology Lab II	1
CHM1010† Intro to Chemistry	3
CHM 1015† Intro to Chemistry Lab	1
CHM 1020† Intro to Organic and Biochemistry	3
CHM 1025† Intro to Organic and Biochemistry Lab	1
CHM 1610 General Chemistry I	4
CHM 1615 General Chemistry Lab I	1
CHM 1620 General Chemistry II	4
CHM 1625 General Chemistry Lab II	1
GEO 1200† Physical Geography	4
PHY 1060†** Survey of Physics	4
PHY 1310†** General Physics I	4
PHY 1320†** General Physics II	4
PHY 2310** Engineering Physics I	5
PHY 2320** Engineering Physics II	5

** Includes a laboratory component

† These survey courses are recommended for Associate of Science majors.

Social and Behavioral Sciences

Nine credit hours from at least two different disciplines are required:

ECO 2010 Macroeconomics	3
ECO 2020 Microeconomics	3
GEO 1110 World Regional Geography	3
PLS 1000 American Government	3
PLS 1100 State and Local Government	3
PSY 1210 General Psychology	3
PSY 1360 Life Span Development	3
PSY 2210 Abnormal Psychology	3
PSY 2400 Child Psychology	3
PSY 2410 Adolescent Psychology	3
SOC 2010 Fundamentals of Sociology	3
SOC 2120 Cultural Awareness	3
SOC 2500 Cultural Anthropology	3

Capstone Course

This required course must be taken after completing at least 45 semester hours.

HUM 2900* Leading by the Humanities	3
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* Required

Electives

Electives may be taken from any Terra program to make up at least 60 total hours for graduation. These electives are in addition to courses used to meet the general education and concentration requirements. Care should be taken to select elective courses that will meet specific requirements at the four-year institution. Any mathematics course below 2000 may not be used as an elective.

Areas of Concentration

A minimum of twelve credit hours are required in an area of concentration. Descriptions of these areas and the required courses are detailed below.

Pre-Allied Health

Select a minimum of 12 hours from the following courses. These are in addition to courses used to meet general education requirements. Additional hours from this list may be used to meet elective requirements.

Option A: For students who wish to pursue a Bachelor of Science Medical Lab Tech degree. For students pursuing this option the recommended mathematics course is MTH 2210, Statistics.

	Credit Hrs.
BIO1710 Microbiology.....	4
BIO2010 Biology I.....	4
BIO2015 Biology Lab I.....	1
BIO2020 Biology II.....	4
BIO2025 Biology Lab II.....	1
CHM 1610 General Chemistry I.....	4
CHM 1615 General Chemistry Lab I.....	1
CHM 1620 General Chemistry II.....	4
CHM 1625 General Chemistry Lab II.....	1

Option B: For students who wish to pursue a Bachelor of Science degree in nursing. The recommended mathematics course is MTH 2210, Statistics. Two recommended social science courses are PSY 1210, General Psychology and SOC 2010, Introduction to Sociology.

BIO 1710 Microbiology.....	4
BIO 2010 Biology I.....	4
BIO 2015 Biology Lab I.....	1
BIO 2100 Nutrition.....	3
NUR 1010 Fundamentals of Nursing.....	5
NUR 1020 Nursing Concepts and Assessment.....	3
NUR 1100 Family Health Nursing.....	6

Option C: For students who wish to pursue a Bachelor of Science degree in dietetics. The recommended mathematics course is MTH 2210, Statistics. Two recommended social science courses are PSY 1210, General Psychology and SOC 2010, Introduction to Sociology.

BIO 1210 Anatomy & Physiology I.....	4
BIO 1220 Anatomy & Physiology II.....	4
BIO 2100 Nutrition.....	3
CHM 1610 General Chemistry I.....	4
CHM 1615 General Chemistry Lab I.....	1
CHM 1620 General Chemistry II.....	4
CHM 1625 General Chemistry Lab II.....	1

Option D: For students who wish to pursue a Bachelor of Science degree in Health Information Technology.

BIO 1210 Anatomy & Physiology I.....	4
BIO 1220 Anatomy & Physiology II.....	4
HIT 2450 ICD-9-CM Coding.....	4
HIT 2550 CPT-4 Coding.....	4
HIT 2650 Medical Reimbursement.....	3
HIT 2920 Clinical Practicum I.....	3
MED 2400 Medical Terminology.....	3

Pre-Business

Students should elect a minimum of 12 hours from the following courses. These are in addition to courses used to meet the General Education requirements. Required third class in English composition/oral communications is ENG 1900, Technical Writing for Business and Industry. Required social science classes are ECO 2010 Macroeconomics, and ECO 2020, Microeconomics. Recommended mathematics course is MTH 2510, Calculus I.

ACC 1100 Financial Accounting.....	4
ACC 1200 Managerial Accounting.....	4
LAW 2420 Business Law.....	3
MRT 1010 Marketing.....	3
CIT 1090 Computer Fundamentals.....	3

Pre-Engineering

Students should select a minimum of 12 hours from the following courses. These are in addition to courses used to meet the General Education requirements.

	Credit Hrs.
MTH 2510 Calculus and Analytic Geometry I.....	5
MTH 2520 Calculus and Analytic Geometry II.....	5
MTH 2630 Differential Equations.....	3
PHY 2310 Engineering Physics I.....	5
PHY 2320 Engineering Physics II.....	5

Mathematics

Students should select a minimum of 12 hours from the following courses. These are in addition to courses used to meet the General Education requirements. Additional hours from this list may be used to meet elective requirements. PHY 2310 and PHY 2320 Engineering Physics I and II are recommended as the science electives.

MTH 2510 Calculus and Analytic Geometry I.....	5
MTH 2520 Calculus and Analytic Geometry II.....	5
MTH 2530 Calculus and Analytic Geometry III.....	4
MTH 2610 Linear Algebra.....	3
MTH 2630 Differential Equations.....	3

Natural & Biological Sciences

BIOLOGY

Students should select a minimum of 12 hours from the following courses. These are in addition to courses used to meet the General Education requirements. Additional hours from this list may be used to meet elective requirements. The recommended mathematics course for both the Bachelor of Arts and Bachelor of Science degrees are MTH 2510, Calculus I.

BIO 2010 Biology I.....	4
BIO 2015 Biology Lab I.....	1
BIO 2020 Biology II.....	4
BIO 2025 Biology Lab II.....	1
CHM 1610 General Chemistry I.....	4
CHM 1615 General Chemistry Lab I.....	1
CHM 1620 General Chemistry II.....	4
CHM 1625 General Chemistry Lab II.....	1

CHEMISTRY

Students should select a minimum of 12 hours from the following courses. These are in addition to courses used to meet the General Education requirements. Additional hours from this list may be used to meet elective requirements. Students wishing to pursue a Bachelor of Science major should choose MTH 2510 & MTH 2520, Calculus I and II for their mathematics electives. Students pursuing a Bachelor of Arts Degree should enroll in the College Algebra series, MTH 2310 and MTH 2320.

CHM 1610 General Chemistry I.....	4
CHM 1615 General Chemistry Lab I.....	1
CHM 1620 General Chemistry II.....	4
CHM 1625 General Chemistry Lab II.....	1
PHY 2310 Engineering Physics I.....	5
PHY 2320 Engineering Physics II.....	5

PHYSICS

Students should select a minimum of 12 hours from the following courses. These are in addition to courses used to meet the General Education requirements. Additional hours from this list may be used to meet elective requirements.

CHM 1610 General Chemistry I.....	4
CHM 1615 General Chemistry Lab I.....	1
CHM 1620 General Chemistry II.....	4
CHM 1625 General Chemistry Lab II.....	1
MTH 2510 Calculus and Analytic Geometry I.....	5
MTH 2520 Calculus and Analytic Geometry II.....	5
MTH 2530 Calculus and Analytic Geometry III.....	4
MTH 2630 Differential Equations.....	3
PHY 2310 Engineering Physics I.....	5
PHY 2320 Engineering Physics II.....	5