# ASSOCIATE OF APPLIED SCIENCE

Degree candidates at Cuyahoga Community College (Tri-C®) must be in good standing. An Associate of Applied Science degree will be granted to the student completing the following requirements.

### **Comprehensive Graduation Requirements**

- a. The satisfactory completion of 60 semester credit hours at the 1000-level or higher. No more than three of the 60 credits can be completed in physical education.
- b. The achievement of a minimum overall grade point average (GPA) of 2.00 for all courses attempted at Tri-C (with exceptions as provided under College policies for repeating a course, Grade Forgiveness and Fresh Start).
- c. The completion of a minimum of 12 credit hours of advanced coursework (exclusive of 1800-level special topics and independent study/research courses) of the 60 semester credits. Advanced coursework is defined as follows: 2000-level courses, MATH-1400 level and above, BIO-1500 level and above, CHEM-1300 level and above and PHYS-1200 level and above.
- d. The completion of no fewer than 20 of the required 60 semester credit hours at the 1000-level or higher while in attendance at Tri-C.
- e. Special Topics, Independent Study/Research and Cooperative Education courses may be applied to the general education and program graduation requirements unless otherwise noted.

### **General Education Requirements**

Each of the College's degree programs require that students complete a set amount of courses in the areas of general education that include: Communication, Mathematics and Data Analysis, Natural and Physical Sciences, Arts and Humanities, and Social and Behavioral Sciences. Students completing the general education requirements, along with the specific program requirements for a degree, will have achieved the College's general education outcomes.

All Associate of Applied Science degrees have been designed to meet the general education requirements as listed below. Most programs have selected specific courses to meet the general education requirements. For program specific requirements and/or recommendations, see the Associate of Applied Science degree program sequences in this catalog.

# Communication/Mathematics/Natural and Physical Sciences (6 semester credit hours)

The communication skills of reading analytically, writing fluently, listening critically and speaking articulately are essential. Students must complete the following to meet this requirement:

- ENG-1010 College Composition I or ENG-101H Honors College Composition I<sup>1</sup>
- Three semester credit hours selected from the following courses:

Communication		
Code	Title	Credit Hours
COMM-1010	Fundamentals of Speech Communication	3
COMM-101H	Honors Speech Communication	3
English Code	Title	Credit Hours
ENG-1020	College Composition II	3
ENG-102H	Honors College Composition II	3
ENG-2151	Technical Writing	3
Mathematics		
Code	Title	Credit Hours
PHIL-1020	Introduction to Logic	3
MATH-1190	Algebraic and Quantitative Reasoning	3
MATH-1370	Mathematics for Elementary and Middle School Teachers I	4
MATH-1380	Mathematics for Elementary and Middle School Teachers II	4
MATH-1410	Elementary Probability and Statistics I	3
MATH-1420	Elementary Probability and Statistics II	3
MATH-1470	Modern Mathematics for Business and Social Science I	4
MATH-1480	Modern Mathematics for Business and Social Sciences II	4
MATH-1490	Business Probability and Statistics I	3
MATH-1500	Business Probability and Statistics II	3
MATH-1530	College Algebra	4
MATH-153H	Honors College Algebra	4
MATH-1540	Trigonometry	3
MATH-154H	Honors Trigonometry	3
MATH-1580	Precalculus	5
MATH-1610	Calculus I	5
MATH-161H	Honors Calculus I	5
MATH-1620	Calculus II	5
MATH-162H	Honors Calculus II	5
MATH-2010	Introduction to Discrete Mathematics	4
MATH-2310	Calculus III	4
MATH-231H	Honors Calculus III	4
MATH-2410	Introduction to Linear Algebra	3
MATH-2520	Differential Equations	3
Natural and Ph Anthropology	ysical Sciences	
Code	Title	Credit Hours

ANTH-1210

Biology Code

BIO-1040

BIO-104L

**Human Evolution** 

The Cell and DNA

The Cell and DNA Laboratory

Title

3

1

4

Credit Hours

BIO-1050	Human Biology	3
BIO-105L	Human Biology Laboratory	1
BIO-1060	Environment, Ecology, and Evolution	3
BIO-106L	Environment, Ecology, & Evolution Laboratory	1
BIO-1070	Insect Biology	3
BIO-1100	Introduction to Biological Chemistry	3
BIO-1221	Anatomy and Physiology for Diagnostic Medical Imaging	4
BIO-1230	Anatomy and Physiology of the Eye	4
BIO-1410	Anatomy & Physiology of Domestic Animals I	4
BIO-1420	Anatomy & Physiology of Domestic	3
DIO-1420	Animals II	3
BIO-1500	Principles of Biology I	4
BIO-150H	Honors Principles of Biology I	4
BIO-1510	Principles of Biology II	4
BIO-151H	Honors Principles of Biology II	4
BIO-2060	Principles of Genetics	3
BIO-2150	Environmental Science	3
BIO-2331	Anatomy and Physiology I	4
BIO-2341	Anatomy and Physiology II	4
BIO-2500	Microbiology	4
Chemistry		
Code	Title	Credit
		Hours
CHEM-1000	Everyday Chemistry	3
CHEM-100L	Everyday Chemistry Laboratory	1
CHEM-1010	Introduction to Inorganic Chemistry	4
CHEM-1010 CHEM-101H	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry	4
CHEM-1010	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry	4
CHEM-1010 CHEM-101H	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and	4
CHEM-1010 CHEM-101H CHEM-1020	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry	4 4 4
CHEM-1010 CHEM-101H CHEM-1020 CHEM-102H	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry and Biochemistry	4 4 4
CHEM-1010 CHEM-101H CHEM-1020 CHEM-102H CHEM-1081	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry and Biochemistry Medicinal Plants Chemistry	4 4 4 3
CHEM-1010 CHEM-101H CHEM-1020 CHEM-102H CHEM-1081 CHEM-1300	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry and Biochemistry Medicinal Plants Chemistry General Chemistry I	4 4 4 3 4
CHEM-1010 CHEM-101H CHEM-1020 CHEM-102H CHEM-1081 CHEM-1300 CHEM-130H	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry and Biochemistry Medicinal Plants Chemistry General Chemistry I Honors General Chemistry I	4 4 4 3 4 5
CHEM-1010 CHEM-101H CHEM-1020 CHEM-102H CHEM-1081 CHEM-1300 CHEM-130H CHEM-130L	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry and Biochemistry Medicinal Plants Chemistry General Chemistry I Honors General Chemistry I General Chemistry Laboratory I	4 4 4 3 4 5
CHEM-1010 CHEM-101H CHEM-1020 CHEM-102H CHEM-1081 CHEM-1300 CHEM-130H CHEM-130L CHEM-1310	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry and Biochemistry Medicinal Plants Chemistry General Chemistry I Honors General Chemistry I General Chemistry Laboratory I General Chemistry II	4 4 4 3 4 5 1
CHEM-1010 CHEM-101H CHEM-1020 CHEM-102H CHEM-1081 CHEM-1300 CHEM-130H CHEM-1310 CHEM-1311	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry and Biochemistry Medicinal Plants Chemistry General Chemistry I Honors General Chemistry I General Chemistry Laboratory I General Chemistry II Honors General Chemistry II Organic Chemistry Laboratory II	4 4 4 3 4 5 1 4 5
CHEM-1010 CHEM-101H CHEM-1020 CHEM-102H CHEM-1081 CHEM-1300 CHEM-130H CHEM-1310 CHEM-1311 CHEM-1311	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry and Biochemistry Medicinal Plants Chemistry General Chemistry I Honors General Chemistry I General Chemistry Laboratory I General Chemistry II Honors General Chemistry II General Chemistry II	4 4 4 3 4 5 1 4 5
CHEM-1010 CHEM-101H CHEM-1020 CHEM-102H CHEM-1081 CHEM-1300 CHEM-130H CHEM-1311 CHEM-131L CHEM-131L CHEM-2300	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry and Biochemistry Medicinal Plants Chemistry General Chemistry I Honors General Chemistry I General Chemistry Laboratory I General Chemistry II Honors General Chemistry II Organic Chemistry Laboratory II	4 4 4 3 4 5 1 4 5 1 5
CHEM-1010 CHEM-101H CHEM-1020 CHEM-102H CHEM-1081 CHEM-1300 CHEM-130H CHEM-1310 CHEM-131L CHEM-131L CHEM-2310 CHEM-2310	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry and Biochemistry Medicinal Plants Chemistry General Chemistry I Honors General Chemistry I General Chemistry Laboratory I General Chemistry II Honors General Chemistry II Organic Chemistry Laboratory II	4 4 4 3 4 5 1 4 5 1 5
CHEM-1010 CHEM-101H CHEM-1020 CHEM-102H CHEM-1081 CHEM-1300 CHEM-130H CHEM-1310 CHEM-131L CHEM-131L CHEM-2300 CHEM-2310 Earth Science	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry and Biochemistry Medicinal Plants Chemistry General Chemistry I Honors General Chemistry I General Chemistry Laboratory I General Chemistry II Honors General Chemistry II Organic Chemistry Laboratory II Organic Chemistry II Organic Chemistry II	4 4 4 3 4 5 1 4 5 Credit
CHEM-1010 CHEM-101H CHEM-1020 CHEM-102H CHEM-1081 CHEM-1300 CHEM-130H CHEM-1311 CHEM-131L CHEM-131L CHEM-2300 CHEM-2310 Earth Science Code	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry and Biochemistry Medicinal Plants Chemistry General Chemistry I Honors General Chemistry I General Chemistry Laboratory I General Chemistry II Honors General Chemistry II General Chemistry Laboratory II Organic Chemistry I Organic Chemistry II Title	4 4 4 3 4 5 1 4 5 Credit Hours
CHEM-1010 CHEM-101H CHEM-1020  CHEM-102H  CHEM-102H  CHEM-1300 CHEM-130H CHEM-130L CHEM-131L CHEM-131L CHEM-2300 CHEM-2310  Earth Science Code  ESCI-1030	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry and Biochemistry Medicinal Plants Chemistry General Chemistry I Honors General Chemistry I General Chemistry Laboratory I General Chemistry II Honors General Chemistry II Organic Chemistry Laboratory II Organic Chemistry I Organic Chemistry II	4 4 4 3 4 5 1 4 5 Credit Hours
CHEM-1010 CHEM-101H CHEM-1020  CHEM-102H  CHEM-102H  CHEM-1300 CHEM-130H CHEM-130L CHEM-131L CHEM-131L CHEM-2300 CHEM-2310  Earth Science Code  ESCI-1030 ESCI-1031	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry and Biochemistry Medicinal Plants Chemistry General Chemistry I Honors General Chemistry I General Chemistry Laboratory I General Chemistry II Honors General Chemistry II Organic Chemistry Laboratory II Organic Chemistry I  Title  Earth Earth Laboratory	4 4 4 3 4 5 1 4 5 Credit Hours 3
CHEM-1010 CHEM-101H CHEM-1020 CHEM-102H CHEM-102H CHEM-1300 CHEM-130H CHEM-1310 CHEM-131L CHEM-131L CHEM-2300 CHEM-2310 Earth Science Code ESCI-1030 ESCI-103L ESCI-1040	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry and Biochemistry Medicinal Plants Chemistry General Chemistry I Honors General Chemistry I General Chemistry Laboratory I General Chemistry II Honors General Chemistry II Organic Chemistry Laboratory II Organic Chemistry I Organic Chemistry II  Title  Earth Earth Laboratory Weather Studies	4 4 4 3 4 5 1 4 5 Credit Hours 3 1 3
CHEM-1010 CHEM-101H CHEM-1020 CHEM-102H CHEM-1081 CHEM-1300 CHEM-130H CHEM-1310 CHEM-131L CHEM-2300 CHEM-2310 Earth Science Code  ESCI-1030 ESCI-1040 ESCI-1050	Introduction to Inorganic Chemistry Honors Introduction to Inorganic Chemistry Introduction to Organic Chemistry and Biochemistry Honors Introduction to Organic Chemistry and Biochemistry Medicinal Plants Chemistry General Chemistry I Honors General Chemistry I General Chemistry Laboratory I General Chemistry II Honors General Chemistry II Organic Chemistry Laboratory II Organic Chemistry I Organic Chemistry I  Title  Earth Earth Laboratory Weather Studies Introduction to Ocean Studies	4 4 4 3 4 5 1 5 Credit Hours 3 1 3 3

ESCI-141L	Lab in Physical Geology	1
ESCI-1610	Geology of the National Parks	3
ESCI-161L	Lab in Geology of the National Parks	1
Physics		
Code	Title	Credit Hours
PHYS-1010	Astronomy	3
PHYS-101L	Astronomy Laboratory	1
PHYS-1050	Everyday Physics	2
PHYS-1210	College Physics I	4
PHYS-1220	College Physics II	4
PHYS-1300	Physics of Optical Materials	4
PHYS-2250	Radiographic Physics and Quality Control	4
PHYS-2310	General Physics I	5
PHYS-2320	General Physics II	5

#### The following courses from non-science subject areas can be counted toward this requirement for the Associate of Applied Science degree:

Code	Title	Credit Hours
DIET-1200	Basic Nutrition	3
MT-1242	Somatic Studies I	3
MT-1272	Somatic Studies II	3
MT-1280	Somatic Studies III	2

Students who transfer in credits for ENG-1020 College Composition II without having credit for ENG-1010 will have ENG-1010 waived, but the required 6 hours in Communication/Mathematics/Natural & Physical Sciences must be earned.

## Mathematics and Data Analysis (3 semester credit

The ability to integrate numerical methods for use in today's workforce is essential. Students must complete the following to complete this requirement:

• Three semester credit hours of Mathematics at the 1000-level or

Code	Title	Credit Hours
PHIL-1020	Introduction to Logic	3
MATH-1190	Algebraic and Quantitative Reasoning	3
MATH-1380	Mathematics for Elementary and Middle School Teachers II	4
MATH-1410	Elementary Probability and Statistics I	3
MATH-1420	Elementary Probability and Statistics II	3
MATH-1470	Modern Mathematics for Business and Social Science I	4
MATH-1480	Modern Mathematics for Business and Social Sciences II	4
MATH-1490	Business Probability and Statistics I	3
MATH-1500	Business Probability and Statistics II	3
MATH-1530	College Algebra	4
MATH-153H	Honors College Algebra	4
MATH-1540	Trigonometry	3

MATH-154H	Honors Trigonometry	3	ENG-2410	Introduction to Literature: Poetry	3
MATH-1580	Precalculus	5	ENG-2420	Introduction to Literature: Fiction	3
MATH-1610	Calculus I	5	ENG-2430	Introduction to Literature: Drama	3
MATH-161H	Honors Calculus I	5	ENG-2450	Introduction to Literature: Science Fiction	3
MATH-1620	Calculus II	5	ENG-2510	African-American Literature I	3
MATH-162H	Honors Calculus II	5	ENG-2520	African-American Literature II	3
MATH-2010	Introduction to Discrete Mathematics	4	ENG-2601	Literature for Children and Adolescents	3
MATH-2310	Calculus III	4	ENG-2700	World Literature	3
MATH-231H	Honors Calculus III	4	ENG-2710	Shakespeare	3
MATH-2410	Introduction to Linear Algebra	3	ENG-2730	Exploration of World Mythology	3
MATH-2520	Differential Equations	3	ENG-2770	Rhetorics of Gaming: Introduction to Video Game Analysis	3

### Arts and Humanities/Social and Behavioral Sciences/ Natural and Physical Sciences (6 semester credit hours)

The appreciation of the achievements of the Arts and Humanities, Social and Behavioral Sciences, and Natural and Physical Sciences provides the ability to integrate learning within a complex global perspective; to gain an awareness of and respect for different cultures; to integrate ethical decision making in dealing responsibly with personal, family and community issues; and to understand, analyze and describe aspects of human behavior from diverse political, social, historical and cultural perspectives. To meet this requirement, students must complete the following:

- Select six semester credit hours from at least two of the following areas, with a minimum of three credits in each area:
- Courses that have been used to complete the Communication requirement cannot count toward fulfilling Arts and Humanities/ Social and Behavioral Sciences/Natural and Physical Sciences requirement.

### **Arts and Humanities**

Art

Code	Title	Credit Hours
ART-1010	Art Appreciation	3
ART-1040	Survey of Non-Western Art	3
ART-2020	Art History Survey: Prehistoric to Renaissance	3
ART-202H	Honors Art History Survey: Prehistoric to Renaissance	3
ART-2030	Art History Survey: Late Renaissance to Present	3
ART-203H	Honors Art History Survey: Late Renaissance to Present	3
Dance		
Code	Title	Credit Hours
DANC-1100	Dance Appreciation	3
English 2000-level	Literature courses	
Code	Title	Credit Hours
ENG-2310	American Literature I	3
ENG-2320	American Literature II	3
ENG-2350	British Literature I	3
ENG-2360	British Literature II	3

History		o 1:-
Code	Title	Credit Hours
HIST-2031	Islam to the Modern Middle East	3
HIST-2150	African American History to 1877	3
HIST-2160	African American History 1877-present	3
HIST-2520	Hitler and the Holocaust	3
HIST-2660	Women in American History	3

Humanities		
Code	Title	Credit Hours
HUM-1010	Introduction to Humanities	3
HUM-1020	The Individual in Society	3
HUM-102H	Honors Individual in Society	3
HUM-2020	Community Engagement Through the Humanities	3
HUM-2030	Culture and Belief	3

Media and Journalism Studies				
Code	Title	Credit Hours		
MJS-1310	Film Appreciation	3		
Music				
Code	Title	Credit Hours		
MUS-1010	Survey of European Classical Music	3		
MUS-1020	Survey of Jazz	3		
MUS-1030	Survey of Rock and Roll	3		
MUS-1040	Survey of African-American Music	3		

Survey of World Music

Jazz History

MUS-1050 MUS-2541

Philosophy Code	Title	Credit Hours
PHIL-1000	Critical Thinking	3
PHIL-1010	Introduction to Philosophy	3
PHIL-101H	Honors Introduction to Philosophy	3
PHIL-2020	Ethics	3
PHIL-202H	Honors Ethics	3
PHIL-2050	Bioethics	3

3

3

PHIL-205H	Honors Bioethics	3	<b>Political Science</b>		
PHIL-2060	Business Ethics	3	Code	Title	Credit
PHIL-208H	Honors Social Justice	3			Hours
Delinious Ctudios			POL-1010	American National Government	3
Religious Studies Code	Title	Credit	POL-101H	Honors American National Government	3
Code	Title	Hours	POL-1020	State & Local Government	3
REL-1010	Introduction to Religious Studies	3	POL-2020	Introduction to Conflict and Peace Studies	3
REL-2000	Comparative World Religions	3	POL-2030	Comparative Politics	3
REL-2010	Religious Traditions of Western Christianity	3	POL-2060	Political Systems of Africa	3
REL-2060	African-American Religious Experience	3	POL-2070	International Relations	3
	7 milean 7 mileanean Trengreuse Experience	J	POL-2100	Constitutional Law	3
Theatre			POL-2120	Women and Politics	3
Code	Title	Credit	Psychology		
TUEA 1010	Therefore Ammunication	Hours	Code	Title	Credit
THEA-1010	Theatre Appreciation	3			Hours
THEA-2210	History of Theatre and Drama I	3	PSY-1010	General Psychology	3
THEA-2220	History of Theatre & Drama II	3	PSY-101H	Honors General Psychology	3
Social and Beha Anthropology	vioral Science		PSY-1050	Introduction to Industrial/Organizational Psychology	3
Code	Title	Credit	PSY-2010	Child Growth and Development	3
		Hours	PSY-2020	Life Span Development	4
ANTH-1010	Cultural Anthropology	3	PSY-202H	Honors Life Span Development	4
ANTH-2010	Peoples and Cultures of the World	3	PSY-2040	Social Psychology	3
ANTH-2110	Archaeology	3	PSY-2050	Psychology of Personality	3
Faanamiaa			PSY-2060	Adolescent Psychology	3
Economics Code	Title	Credit	PSY-2081	Psychopathology (formerly PSY-2080	3
Code	Title	Hours		Abnormal Psychology)	
ECON-1210	Survey of Economics	3	PSY-2110	Educational Psychology	3
ECON-2000	Principles of Microeconomics	3	Casialamı		
ECON-2010	Principles of Macroeconomics	3	Sociology Code	Title	Credit
			ooue	Title	Hours
Geography			SOC-1010	Introductory Sociology	3
Code	Title	Credit Hours	SOC-101H	Honors Introductory Sociology	3
GEOG-1000	Introduction to Geography	3	SOC-1020	Social Institutions	3
GEOG-1000			SOC-2010	Social Problems	3
GEOG-1010	World Regional Geography Africans in the Americas	3	SOC-201H	Honors Social Problems	3
GEOG-1030	Regional Geography of the United States	3	SOC-2020	Sociology of the Family	3
GL0G-1310	and Canada	3	SOC-2100	Aging and Society	3
GEOG-2030	Environmental Geography	3	SOC-2110	Death and Dying	3
	ooccg.ap)		SOC-2160	Introduction to Criminology	3
History			SOC-2410	Sociology of Gender	3
Code	Title	Credit	SOC-2550	Race and Ethnic Relations	3
LUCTIOIO	History of Civilination I	Hours			
HIST-1010	History of Civilization I	3	Urban Studies		o !:.
HIST-101H	Honors History of Civilization I	3	Code	Title	Credit Hours
HIST-1020	History of Civilization II	3	UST-1010	Introduction to Urban Studies	Hours 3
HIST-102H	Honors History of Civilization II		UST-2020	Urban Cultures	3
HIST-1510	United States History to 1877	3	031-2020	Orban Guitures	3
HIST-151H	Honors United States History to 1877	3	Women and Gende	er Studies	
HIST-1520	United States History Since 1877	3	Code	Title	Credit
HIST-152H	Honors United States History since 1877	3			Hours
HIST-1700	History of Africa	3	WGS-1510	Introduction to Women's and Gender Studies	3

WGS-151H	Honors Introduction to Women's and	3	CHEM-130H	Honors General Chemistry I	
	Gender Studies		CHEM-130L	General Chemistry Laboratory I	
WGS-2010	Women in the World	3	CHEM-1310	General Chemistry II	
WGS-201H	Honors Women in the World	3	CHEM-131H	Honors General Chemistry II	
WGS-2120	Women and Politics	3	CHEM-131L	General Chemistry Laboratory II	
Natural and Phy	ucical Sciences		CHEM-2300	Organic Chemistry I	
Anthropology	isical sciences		CHEM-2310	Organic Chemistry II	
Code	Title	Credit	Forth Coiones		
		Hours	Earth Science Code	Title	Cred
ANTH-1210	Human Evolution	4	Code	ride	Hou
Biology			ESCI-1030	Earth	
Code	Title	Credit	ESCI-103L	Earth Laboratory	
Couc		Hours	ESCI-1040	Weather Studies	
BIO-1040	The Cell and DNA	3	ESCI-1050	Introduction to Ocean Studies	
BIO-104L	The Cell and DNA Laboratory	1	ESCI-1310	Physical Geography	
BIO-1050	Human Biology	3	ESCI-131L	Lab in Physical Geography	
BIO-105L	Human Biology Laboratory	1	ESCI-1410	Physical Geology	
BIO-1060	Environment, Ecology, and Evolution	3	ESCI-141L	Lab in Physical Geology	
BIO-106L	Environment, Ecology, & Evolution	1	ESCI-1610	Geology of the National Parks	
	Laboratory		ESCI-161L	Lab in Geology of the National Parks	
BIO-1100	Introduction to Biological Chemistry	3		and meaning of the manifestation and	
BIO-1221	Anatomy and Physiology for Diagnostic	4	Physics		
	Medical Imaging		Code	Title	Cred
BIO-1230	Anatomy and Physiology of the Eye	4	DUVO 1010	Anthropological	Hou
BIO-1410	Anatomy & Physiology of Domestic	4	PHYS-1010	Astronomy	
	Animals I		PHYS-101L	Astronomy Laboratory	
BIO-1420	Anatomy & Physiology of Domestic	3	PHYS-1050	Everyday Physics	
DIO 1500	Animals II		PHYS-1210	College Physics I	
BIO-1500	Principles of Biology I	4	PHYS-1220	College Physics II	
BIO-150H	Honors Principles of Biology I	4	PHYS-1300	Physics of Optical Materials Radiographic Physics and Quality Control	
BIO-1510	Principles of Biology II	4	PHYS-2250 PHYS-2310	General Physics I	
BIO-151H	Honors Principles of Biology II	4	PHYS-2310	General Physics II	
BIO-2060	Principles of Genetics	3	PH15-2320	General Physics II	
BIO-2100	Biology of Aging	3	The following courses from non-science subject areas can be counted		ınted
BIO-2150	Environmental Science	3	toward this requi	irement for the Associate of Applied Business de	gree
BIO-2200	Radiobiology	2	Code	Title	Cred
BIO-2331 BIO-2341	Anatomy and Physiology I		oode	THE	Hou
	Anatomy and Physiology II	4	DIET-1200	Basic Nutrition	
BIO-2500	Microbiology  Pethophysiology	4	EMT-1401	Anatomy & Physiology for Paramedics	
BIO-2600	Pathophysiology	3	MT-1242	Somatic Studies I	
Chemistry			MT-1272	Somatic Studies II	
Code	Title	Credit Hours	MT-1280	Somatic Studies III	
CHEM-1000	Everyday Chemistry	3	Diversity, Equ	uity and Inclusion	
CHEM-100L	Everyday Chemistry Laboratory	1	Code	Title	Cred
CHEM-1010	Introduction to Inorganic Chemistry	4			Hou
CHEM-101H	Honors Introduction to Inorganic Chemistry	4	COMM-2160	Intercultural Communication	
CHEM-1020	Introduction to Organic Chemistry and	4	ENG-2510	African-American Literature I	
	Biochemistry		ENG-2520	African-American Literature II	
CHEM-102H	Honors Introduction to Organic Chemistry	4	MJS-1611	Black Media	
OUEN 1007	and Biochemistry		SOC-2550	Race and Ethnic Relations	
CHEM-1081	Medicinal Plants Chemistry	3			
CHEM-1300	General Chemistry I	4			

WGS-1510	Introduction to Women's and Gender Studies	3
WGS-151H	Honors Introduction to Women's and Gender Studies	3
WGS-2010	Women in the World	3
WGS-201H	Honors Women in the World	3

### **Program Requirements**

Program requirements are outlined by the specific technical program sequences in this catalog. Approximately half of each Associate of Applied Science program requirements must include a minimum of 15 additional credits of general education or applied general education (i.e., "basic" coursework), for a total of 30 credits of nontechnical coursework. Applied general education includes a focus on "21 st\_century" skills and knowledge, including information and communication literacy; critical thinking and problem-solving; interpersonal and collaborative skills; global awareness and financial, economic, business and civic literacy. Technical program concentrations should consist of 12-16 semester credits of technical specialization including a minimum one-semester credit Capstone Course.

The Capstone Course provides students with opportunities to apply technical, oral and written skills; to prepare resumes and/or portfolios and develop interview skills; to study history and trends in the profession; and/or to discuss ethical and global issues within the profession. Program requirements are identified in the Associate of Applied Science degree program sequences in this catalog.

#### **Cross-listed Courses**

Cross-listed courses are identical courses offered in two or more subject areas. They differ only in subject area code and course number. Credit may be earned once for cross-listed courses.