QUINSIGAMOND
Community College

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TO: The College Community

FROM: Patricia Toney
Vice President of Academic Affairs

SUBJECT: **ACADEMIC MATTERS**

DATE: October 5, 2015

Final approval has been given to the academic matters acted upon at the September 22, 2015 meeting of the Learning Council.

All Schools

Course Revisions: ENG 100 will no longer be offered as of summer 2016. English prerequisites and co-requisites have been adjusted for all courses affected by this change. Program grids have been revised accordingly and all grid changes are highlighted.

Please change the English prerequisites or co-requisites for the courses and grids on the attached list.

2015- 2016
QUINSIGAMOND COMMUNITY COLLEGE

COURSE REVISION PROPOSAL

1. **Course Number and Name (current) : see attached list**

2. **Originator: Coordinators Council** **Date: August 25, 2015**

3. **School Dean: James Brown, Jane June, Leslie Horton, Kathy Rentsch, Clarence Ates**

   Date: August 25, 2015

4. **The requested change (motion) for governance consideration is as follows:**
   Change the English prerequisites or corequisites for the courses in the attached list.

   The following programs are affected by this change and the grids will be revised (list program names and program codes as they appear in the college catalog):
   See attachment

5. **Effective Date: Summer 2016**

6. **Recommended by the Schools of Humanities and Education, Healthcare, Math and Science, Business, Engineering and Technology, and Public Service and Social Sciences**

   Date:

   Comments:

7. **AA Leadership Team:** Jim Brown **Date:** 9/18/15

   Recommended: ✓ **Not Recommended:** _____
   Comments:

8. **VP/Academic Affairs:** [signature] **Date:** 9/18/15

   Recommended: ✓ **Not Recommended:** _____
   Comments:

9. **Learning Council:** [signature] **Date:** 9/22/15

   Recommended: ✓ **Not Recommended:** _____
   Comments:

10. **VP/Academic Affairs:** [signature] **Date:** 9/22/15

    Approved: ✓ **Not Approved:** _____
    Comments:

2015 - 2016
QUINSIGAMOND COMMUNITY COLLEGE

COURSE REVISION PROPOSAL

Type of Revision: ___ Description __X_ Prerequisite X _Corequisite ___ Number ___ Name ___ #credits ___ Elective Type ___ other (explain)	
Course Discipline or Department: see attached	School: all schools
Current Course Number: see attached	
Current Course Name: see attached	
Current Course Description (as it appears in the college catalog): The attachment shows current prerequisites and corequisites for all courses that will be affected by the changes that were made to English courses (see Academic Matters for January 2015 and March 2015) for Summer 2016.	
Proposed Description (include all proposed changes): Only ENG prerequisites or corequisites will change as indicated in the attachment.	
Rationale for the change: ENG 100 will no longer be offered as of summer 2016. English prerequisites and corequisites have been adjusted for all courses affected by this change. Program grids have been revised accordingly and all grid changes are highlighted.	
Provide a description of any change in course content. No content change	
Does the course revision affect another department? Please confer with the coordinator of the affected department. Affected department(s)	
Attach current and proposed grids for all affected programs (listed on page 1 of this proposal).	
Please submit a generic syllabus to your dean with all of the revisions included.	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
ACC	101	Financial Accounting I	3	ENG 100 or appropriate placement score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ACC	110	Accounting Software for Small Business	4	A grade of "C" or higher in ENG 091 and passing the ENG 096 departmental writing final examination essay or appropriate placement score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ACC	211	Federal Taxation	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ALH	102	Introduction to Medical Terminology	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ALH	103	Introduction to Pharmacology for Allied Health Professionals	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ALH	106	Medical Law and Ethics	3	Passing the ENG 096 departmental writing final examination essay or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
ALH	107	Medical Coding and Billing	3	ENG 100 or appropriate placement score	ALH 102	ENG 096 with a grade of "C" or higher; or appropriate placement score	
ALH	131	Introductory Nursing Assistant	5	A grade of "C" or higher in ENG 091 and passing the ENG 096 departmental writing final examination essay or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ALH	134	Phlebotomy/EKG Technician	3	A grade of "C" or higher in ENG 091 and passing the ENG 096 departmental writing final examination essay or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ALH	137	Pharmacy Technician	3	A grade of "C" or higher in ENG 091 and passing the ENG 096 departmental writing final examination essay or appropriate placement score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ALH	151	Medical Office Administration I	3	ENG 100 or appropriate placement score	ALH 102, BSS 101	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
ANT	111	Cultural Anthropology	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ANT	221	Physical Anthropology	3	ENG 100 or appropriate placement score		ENG 101	
APA	114	Digital Design Concepts I	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
APA	121	Graphic Design I	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
APA	154	Digital Imaging and Media	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
APA	161	Digital Photography	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ART	101	Art Appreciation	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
ART	111	A History of Art I	3		ENG 101	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ART	112	A History of Art II	3		ENG 101	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ART	211	History of Graphic Design	3	ENG 101		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ART	260	American Women Artists	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ART	121	Contemporary Art	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
BIO	100	Principles of Human Biology	4	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
BIO	101	General Biology: Core Concepts	4	ENG 100 or appropriate placement score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
BIO	104	Introduction to Plant Biology	4	MAT 095 with a "C" or higher on the MAT 095 departmental final exam or appropriate placement score	ENG 101	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
BIO	105	Principles of Ecology	4	ENG 100 or appropriate placement score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
BIO	110	Plants in Our World	4	ENG 100 or appropriate placement score, MAT 099 with a "C" or higher on the MAT 099 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
BKK	101	Bookkeeping I	3	A grade of "C" or higher in ENG 091 and passing the ENG 096 departmental writing final examination essay or appropriate placement score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
BSS	101	Keyboarding Applications	3	A grade of "C" or higher in ENG 091 or appropriate placement score		ENG 091 with a grade of "C" or higher; or appropriate placement score	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
BSS	104	Business Office Procedures	3	BSS 101, CIS 111, ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
BTT	101	Introduction to Biotechnology	3	ENG 100 or appropriate placement score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
BUS	201	Integrated Communications for Business	3	ENG 100 or appropriate placement score, CIS 111		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
BUS	205	Project Management	3	ENG 100 or appropriate placement score		ENG 101	
CHC	150	Health and Healing	3	BIO 101, ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
CHC	151	Fundamentals of Complementary Health	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
CRJ	101	Introduction to Criminal Justice	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher; or appropriate placement score	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
CRJ	111	Criminal Law	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
CRJ	113	Constitutional Law	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
CRJ	123	Contemporary Corrections	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
CRJ	141	Introduction to Private Security	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
CRJ	208	Technologies in Criminal Justice	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
CRJ	213	Theories in Criminology	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
CRJ	231	Introduction to Policing	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher; or appropriate placement score	
CSC	108	Computer Science I	4	CIS 111, ENG 100 or appropriate placement score	MAT 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
CSC	210	Storage Technologies	3	A grade of "C" or higher in ENG 091 and passing the ENG 096 departmental writing final examination essay or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
CST	207	Telecommunications in Business	3	A grade of "C" or higher in ENG 091 and passing the ENG 096 departmental writing final examination essay or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ECE	100	Introduction to Early Childhood Competencies	3	ECE 102, ENG 100 or appropriate placement score	ECE 202	ENG 096 with a grade of "C" or higher; or appropriate placement score	
ECE	101	Introduction to Early Childhood Education	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	
ECE	102	Growth & Development of the Young Child	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	
ECE	103	Health, Safety & Nutrition in Programs for Young Children	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	
ECE	112	Family Issues & Dynamics	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	
ECE	113	Curriculum Planning for School Age Children	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
ECE	123	Fieldwork with Infants and Toddlers (Observation and Experience)	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	
ECE	131	Planning Programs for Young Children	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	
ECE	133	Developing a Multicultural Curriculum for Young Children	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	
ECE	141	Child Abuse & Neglect	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	
ECE	204	Fieldwork with School-Age Children	3	ENG 100 or appropriate placement score, ECE 102 or PSY 123		ENG 096 with a grade of "C" or higher; or appropriate placement score	
ECE	221	Infant & Toddler Curriculum and Development	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	
ECE	222	Infant/Toddler Curriculum: Application in the Field	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	
ECE	237	Nature & Science for the Young Child	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	
ECE	238	Supervision, Coaching and Mentoring in Early Childhood Settings	3	ENG 100 or appropriate placement score		ENG 101	
ECE	242	Young Children with Special Needs	3	ENG 100 or appropriate placement score, PSY 123 or ECE 102		ENG 096 with a grade of "C" or higher; or appropriate placement score	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
ECE	255	Discipline: Guiding Children's Behavior	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	
ECE	256	Language Development in Early Childhood Education	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	
ECO	215	Principles of Macroeconomics	3	ENG 100 or appropriate placement score			ENG 101
ECO	216	Principles of Microeconomics	3	ENG 100 or appropriate placement score			ENG 101
EDU	101	Elementary Education: Teaching and Learning	3	ENG 101 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	
EDU	102	Integrating Theory and Practice: The Elementary School Learner	3	ENG 101		ENG 096 with a grade of "C" or higher; or appropriate placement score	
ELT	103	Electronics I	4	A grade of "C" or higher in ENG 091 and passing the ENG 096 departmental writing final examination essay or appropriate placement score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
ELT	120	Introduction to Photonics	4	A grade of "C" or higher in ENG 091 and passing the ENG 096 departmental writing final examination essay or appropriate placement score, MAT 099 with a "C" or higher on the MAT 099 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ELT	121	Digital Computer Circuits	4	A grade of "C" or higher in ENG 091 and passing the ENG 096 departmental writing final examination essay or appropriate placement score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
ENG	091	Intermediate Reading Skills	3	A grade of "C" or higher in ENG 090 or appropriate placement score		ENG 090 with a grade of "C" or higher; or appropriate placement score	
ENG	096	Intermediate Writing Skills	3	Passing the ENG 095 departmental writing final examination or appropriate placement score		ENG 095 with a grade of "C" or higher; or appropriate placement score	
ENG	101	Composition I	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
EUT	101	Fundamentals of the Energy Industry	4		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
EUT	110	Electrical Principles I	4	MAT 095 with a "C" or higher on the MAT 095 departmental final exam or appropriate placement score	ENG 100 or appropriate placement score, EUT 101	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
FIN	221	The Stock Market and Investments	3	ENG 100 or appropriate placement score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
FIN	250	Principles of Finance	3	ENG 100 or appropriate placement score, MAT 099 with a "C" or higher on the MAT 099 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
FSC	101	Principles of Emergency Services	3	Passing the ENG 096 departmental writing final examination essay or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
FSC	104	Fire Behavior and Combustion	3	FSC 101	ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
FSC	121	Building Construction for Fire Protection	3	FSC 101	ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
FSC	151	Occupational Safety and Health for Emergency Services	3	Passing the ENG 096 departmental writing final examination essay or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
GEO	210	World Regional Geography	3	ENG 101			ENG 101
GRT	101	Introduction to Aging	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	
HST	104	World History I: Beginning to 1500	3	ENG 100 or appropriate placement score		ENG 101	
HST	105	World History II: 1500 to World War I	3	ENG 100 or appropriate placement score		ENG 101	
HST	106	World History III: World War I to Present	3	ENG 100 or appropriate placement score		ENG 101	
HST	115	U.S. History: Beginnings to 1865	3	ENG 100 or appropriate placement score		ENG 101	
HST	116	U.S. History: 1865 to Present	3	ENG 100 or appropriate placement score		ENG 101	
HST	133	History of Puerto Rico	3	ENG 100 or appropriate placement score		ENG 101	
HST	152	The Holocaust & World War II	3	ENG 100 or appropriate placement score		ENG 101	
HST	153	The Bible as History	3	ENG 100 or appropriate placement score		ENG 101	
HST	157	Genocide	3	ENG 100 or appropriate placement score		ENG 101	
HST	202	Topics in the History of Civilization	3	ENG 100 or appropriate placement score		ENG 101	
HST	203	African American History I: Beginnings to 1865	3	ENG 100 or appropriate placement score		ENG 101	
HST	204	African American History II: 1865 to Present	3	ENG 100 or appropriate placement score		ENG 101	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
HST	206	History of Latin America I: Pre-Contact to 1825	3	ENG 100 or appropriate placement score		ENG 101	
HST	207	History of Latin America II: 1825 to Present	3	ENG 100 or appropriate placement score		ENG 101	
HST	211	Topics in American History and Culture	3	ENG 100 or appropriate placement score		ENG 101	
HST	212	The United States Constitution	3	ENG 100 or appropriate placement score		ENG 101	
HST	215	American Ethnic History	3	ENG 100 or appropriate placement score		ENG 101	
HST	216	History of Native Americans in North America	3	ENG 100 or appropriate placement score		ENG 101	
HST	232	Worcester's History	3	ENG 100 or appropriate placement score		ENG 101	
HST	241	History of Chinese Civilization	3	ENG 100 or appropriate placement score		ENG 101	
HUM	101	Critical Thinking and Problem Solving	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
HUM	142	Internet Communications	3	ENG 100 or appropriate placement score, Computer Literacy		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
HUM	147	Genocide	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
HUS	101	Introduction to Human Services	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	
HUS	121	The Helping Relationship: Delivering Human Services	3	ENG 100 or appropriate placement score		ENG 096 with a grade of "C" or higher; or appropriate placement score	

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HUS	131	Introduction to Developmental Disabilities	3	ENG 100 or appropriate placement score, HUS 101			ENG 101
HUS	141	Community Service: Delivering Human Services	3	ENG 100 or appropriate placement score, HUS 101, HUS 121		ENG 101	
IDS	101	Valuing Diversity	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
IDS	113	Ethical Issues in Business & the Professions	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
IDS	215	Bioethics	3		ENG 100 or appropriate placement score		ENG 101
INS	121	Principles of Liability and Property Insurance	3	ENG 100 or appropriate placement score			ENG 101
INS	122	Principles of Personal Insurance	3	ENG 100 or appropriate placement score	INS 121		ENG 101
LIB	101	Introduction to Liberal Arts	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
MGT	101	Introduction to Business	3	A grade of "C" or higher in ENG 091 and passing the ENG 096 departmental writing final examination essay or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
MGT	211	Principles of Management	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	

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MGT	215	Human Resource Management	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
MGT	216	Entrepreneurship and Small Business Management	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
MGT	222	International Business & Management	3	ENG 100 or appropriate placement score, MGT 101		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
MRK	111	Principles of Real Estate	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
MRK	201	Principles of Marketing	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
MRK	221	Sales & Sales Management	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
MRK	231	Advertising	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
MRK	241	Social Media Marketing	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	

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MUS	151	Music Theory I	4	A grade of "C" or higher in ENG 091 and ENG 096 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
MUS	261	Music History I	3	A grade of "C" or higher in ENG 091 and ENG 096 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
NUR	103	Current Concepts in Nursing & Healthcare I	1	BIO 111	BIO 112, PSY 101, NUR 104	ENG 101	
NUR	104	Fundamentals of Nursing	7			ENG 101	
PHA	101	Introduction to Public Health	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
PHA	102	Introduction to Global Health	3	ENG 100 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
PHI	102	An Introduction to the Art of Wondering	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
PHI	104	Introduction to the Art of Loving	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
PHI	121	World Religions	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
PHI	123	Native American Belief Systems	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
PHI	131	Introduction to Ethics	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
PHI	143	Existentialism & the Human Situation	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
PHI	201	Judaism, Christianity and Islam	3	ENG 100 or appropriate placement score		ENG 101	
PHI	250	Special Topics in Philosophy	3	2 PHI courses		ENG 101	
PSC	201	United States Government	3	ENG 100 or appropriate placement score		ENG 101	
PSC	212	The United States Constitution	3	ENG 100 or appropriate placement score		ENG 101	
PSC	221	State & Local Government	3	ENG 100 or appropriate placement score		ENG 101	
PSY	101	Introduction to Psychology	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
PSY	115	Self-Assessment and Career Planning	3	A grade of "C" or higher in ENG 091 and passing the ENG 096 departmental writing final examination essay or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
PSY	117	Human Relationships & the Family	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
PSY	118	Psychology of Interpersonal Relations	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
PSY	119	Psychology of Personal Influence & Self-Improvement	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
PSY	142	Human Sexuality	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
PSY	158	Human Relations in Organizations	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
PSY	181	Social Psychology	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
SCI	103	Earth Science	3	ENG 100 or appropriate placement score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
SCI	104	Climate and Weather: Causes and Effects	3	ENG 100 or appropriate placement score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
SCI	105	Integrated Science: Earth and Space	4	ENG 100 or appropriate placement score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
SCI	106	Integrated Science: The Living World	4	ENG 100 or appropriate placement score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
SCI	107	Science of Technology: Vision and Light	4	ENG 100 or appropriate placement score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
SCI	108	Science of Technology: Hearing and Sound	4	ENG 100 or appropriate placement score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
SCI	109	Environmental Science: Biological Topics	4	ENG 100 or appropriate placement score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
SCI	110	Sustaining Earth's Environment	4	ENG 100 or appropriate placement score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
SCI	140	Astronomy I: Close to Home	4	ENG 100 or appropriate placement score, MAT 099 with a "C" or higher on the MAT 099 departmental final exam or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
SOC	101	Introductory Sociology (Principles)	3		ENG 100 or appropriate placement score	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
SOC	106	The Sociology of Difference and Inequality	3		ENG 100 or appropriate placement score		ENG 101
SOC	111	Social Problems & Social Change	3		ENG 100 or appropriate placement score		ENG 101
SOC	115	Sociology of Sex and Gender	3		ENG 100 or appropriate placement score	ENG 101	
SOC	131	Films in Social Psychology	3		ENG 100 or appropriate placement score		ENG 101
SOC	201	Global Society and Global Culture	3	ENG 100 or appropriate placement score		ENG 101	
SOC	211	The Dynamics of Racial & Ethnic Relations	3		ENG 100 or appropriate placement score	ENG 101	
SOC	212	Juvenile Delinquency & the Juvenile Justice System	3		ENG 100 or appropriate placement score	ENG 101	

Course Prefix	Course #	Course Title	Credits	Current Prerequisites	Current Corequisites	Proposed *English* Prerequisite	Proposed *English* Corequisite
SOC	221	The Family	3		ENG 100 or appropriate placement score	ENG 101	
SOS	131	Personal Health and Wellness: A Social Science Perspective	3		ENG 100 or appropriate placement score		ENG 101
SOS	211	Death & Dying	3		ENG 100 or appropriate placement score	ENG 101	
SPH	101	Speech Communication Skills	3	ENG 101		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	
THA	101	Theater Production	3	A grade of "C" or higher in ENG 091 and ENG 096 or appropriate placement score		ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score	

APPLIED ARTS - Associate in Science (Program Code: GA)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Digital Design Concepts I	APA 114	F/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Graphic Design I	APA 121	F			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Digital Imaging and Media	APA 154	F/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Digital Photography	APA 161	F			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Digital Design Concepts II	APA 115	S/SU			3	APA 114
Graphic Design II	APA 122	S			3	APA 121
Digital Illustration and Animation	APA 155	S/SU			3	APA 154, APA 161
Fundamentals of 3D Digital Design	APA 171	S			3	APA 154, APA 161
Art Theory Elective*	---	F/S/SU			3	
Composition II	ENG 102	F/S/SU			3	ENG 101
Semester 3						
Publication Design	APA 222	F			3	APA 115, APA 122
Typography	APA 271	F			3	APA 115, APA 121
Motion Graphics	APA 275	F			3	APA 154, APA 155
Digital Video Fundamentals	APA 263	F			3	
Art Theory Elective*	---	F/S/SU			3	
Semester 4						
Interactive Media Processes Portfolio	APA 286	S			4	APA 275
Graphic Design Processes Portfolio	APA 287	S			4	APA 222, APA 271
Liberal Arts Elective**	---	F/S/SU			3	
Liberal Arts Elective**	---	F/S/SU			3	
Mathematics Elective	---	F/S/SU			3	
Total Credits Required					**65**	

Program Notes:

- The APA Program is a high demand program and restricts day class offerings to 40 accepted full-time day students per academic year, beginning in the fall semester. Accepted students must register simultaneously for all four APA courses required in Semesters 1-3, and for both APA courses required in Semester 4. Early application is recommended.
- The APA Program teaches sophisticated design software packages. Course content is kept current with software upgrades in each new academic year. There is a three-year time limit for students to take sequential courses that are prerequisites in the program curriculum. Students will then be required to pass software proficiency tests to advance in program course offerings.
- APA students are strongly encouraged, but not required, to have access to a computer (preferably Mac) with related software.
- Students enrolled in APA 161 will be required to purchase a digital camera.

*ART 101, ART 111, ART 112, ART 121, or ART 211.
**May not have an ART designation.

AUTOMOTIVE TECHNOLOGY - Associate in Applied Science (Program Code: AT)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Fundamentals of Automotive Service	AUT 102	F			3	
Automotive Electrical Systems	AUT 111	F			4	
Brake Systems	AUT 131	F			3	
Humanities Elective*	---	F/S/SU			3	
Semester 2						
Basic Gasoline Engines	AUT 121	S			4	AUT 102
Engine Testing/Performance Analysis	AUT 125	S			4	AUT 102
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Social Science Elective	---	F/S/SU			3	
Semester 3						
Suspension, Steering & Alignment	AUT 133	S/SU			3	AUT 102
Climate Control System	AUT 141	SU			3	AUT 121
Science Elective or Mathematics Elective**	---	F/S/SU			3-4	
Semester 4						
Automotive Drive Train	AUT 251	F			3	AUT 121
Automotive Transmission & Transaxle	AUT 253	F			4	Coreq: AUT 251
Composition II or	ENG 102	F/S/SU			3	ENG 101
Technical Writing	ENG 105					
Business Elective	---	F/S/SU			3	
Semester 5						
Basic Automotive Electronics	AUT 113	S			3	AUT 111
Electronic Powertrain Control Systems	AUT 211	S			5	AUT 125
Field Experience and Cooperative Education in Automotive Technology or	AUT 299	F/S/SU			3	Approval of Program Coordinator
Hybrid-Electric Vehicle Operations	AUT 212	S				AUT 121, AUT 141 and AUT 253 or completion of an ASE Master Technician, L-1, Coreq: AUT 113, AUT 211
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Total Credits Required					**63-64**	

Program Notes:

- Applicants to this program must have a valid learner's permit and a driving record that is suitable for prospective employing dealership's insurance requirements. A Request for Driving Record will be forwarded to the MA Department of Transportation on behalf of each student accepted to the program each fall.

*Students who place in ENG 101 should take a Humanities Elective.

**See Science course descriptions for course prerequisite information. Most Science Electives require a minimum of MAT 095 or higher or the appropriate placement score.

**For the purpose of the articulation agreement with Benjamin Franklin Institute of Technology, students must complete one college level mathematics course. Students may select from among the following choices: MAT 100, MAT 121, MAT 122 or higher.

BIOTECHNOLOGY TECHNICIAN CERTIFICATE (Program Code: BI)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Biotechnology	BTT 101	F/S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Cell Biology	BIO 259	F/S			4	BIO 107
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Semester 2						
General Chemistry I	CHM 105	F/S/SU			4	CHM 090 or one year of High School Chemistry, MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Molecular Biology	BIO 260	F/S			4	BIO 107
General Microbiology	BIO 231	F/S			4	BIO 107
Semester 3						
Techniques in Biotechnology	BTT 201	SU			6	BIO 259, BIO 260, BIO 231
Total Credits Required					**28**	

BUSINESS ADMINISTRATION TRANSFER - Associate in Science (Program Code: BT)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Financial Accounting I	ACC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Introduction to Microcomputer Applications or	CIS 111	F/S/SU			3	
Advanced Microcomputer Applications	CIS 112					CIS 111
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Principles of Macroeconomics	ECO 215	F/S/SU			3	Coreq: ENG 101
College Mathematics I: Pre-Calculus or	MAT 123	F/S/SU			3	MAT 100 or approp place score
Applied Calculus	MAT 231	F/S				MAT 123 or approp place score
Semester 2						
Financial Accounting II	ACC 102	F/S/SU			3	ACC 101
Composition II	ENG 102	F/S/SU			3	ENG 101
Principles of Microeconomics	ECO 216	F/S/SU			3	Coreq: ENG 101
Statistics	MAT 122	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Humanities Elective	---	F/S/SU			3	
Semester 3						
Managerial Accounting	ACC 222	F/S/SU			3	ACC 102
Business Elective*	---	F/S/SU			3	
Business Elective*	---	F/S/SU			3	
Humanities Elective	---	F/S/SU			3	
Lab Science Elective	---	F/S/SU			4	
Semester 4						
Business Elective*	---	F/S/SU			3	
Elective	---	F/S/SU			3	
Humanities Elective	---	F/S/SU			3	
Science Elective or Lab Science Elective	---	F/S/SU			3-4	
Social Science Elective	---	F/S/SU			3	
Total Credits Required					**61-62**	

Program Notes:
*Business Administration Transfer students should discuss their choice of Electives with their Academic Advisors and should also consult with the college to which they are planning to transfer in order to be sure they are making the most appropriate Elective selections. Recommended Electives for transfer include courses with the designations ACC, BUS, BSL, FIN, MGT, and MRK.

BUSINESS ADMINISTRATION TRANSFER FASTTRACK - Associate in Science (Program Code: BTFT)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Introduction to Microcomputer Applications or	CIS 111	F			3	
Advanced Microcomputer Applications*	CIS 112					CIS 111
Business Law I or	BSL 101	F			3	
Business Elective*	---					
Critical Thinking and Problem Solving or	HUM 101	F			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Humanities Elective*	---					
Composition I	ENG 101	S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Financial Accounting I	ACC 101	S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Financial Accounting II	ACC 102	S			3	ACC 101
Speech Communication Skills or	SPH 101	SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Humanities Elective*	---					
Introduction to Business or	MGT 101	SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Elective*	---					
Managerial Accounting	ACC 222	SU			3	ACC 102
Principles of Marketing or	MRK 201	SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Business Elective*	---					
Composition II	ENG 102	F			3	ENG 101
Principles of Macroeconomics	ECO 215	F			3	Coreq: ENG 101
Principles of Microeconomics	ECO 216	F			3	Coreq: ENG 101
Statistics	MAT 122	S			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Integrated Science: The Living World or	SCI 106	S			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Lab Science Elective*	---					
Principles of Management or	MGT 211	S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Business Elective*	---					
Continued next page						

BUSINESS ADMINISTRATION TRANSFER FASTTRACK - Associate in Science (Program Code: BTFT)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
College Mathematics I: Pre-Calculus or	MAT 123	SU			3	MAT 100 or approp place score
Applied Calculus*	MAT 231					MAT 123 or approp place score
United States Government or	PSC 201	SU			3	ENG 101
Social Science Elective*	---					
Principles of Ecology or	BIO 105	SU			3-4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Science Elective or Lab Science Elective*	---					
Introduction to Ethics or	PHI 131	SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Humanities Elective*	---					
Total Credits Required					**61-62**	

Program Notes:

- All FastTrack courses are provided in a blended format requiring student participation online over the Internet.

*Alternate courses are not offered in the FastTrack accelerated format.

BUSINESS ADMINISTRATION CAREER - Associate in Science (Program Code: BB)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Microcomputer Applications or	CIS 111	F/S/SU			3	
Advanced Microcomputer Applications	CIS 112	F/S/SU				CIS 111
Principles of Macroeconomics	ECO 215	F/S/SU			3	Coreq: ENG 101
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Business	MGT 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Mathematics Elective*	---	F/S/SU			3	
Semester 2						
Financial Accounting I	ACC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Business Law I or	BSL 101	F/S/SU			3	
E-Business Law & Ethics	BSL 103	F/S				Coreq: CIS 111
Composition II	ENG 102	F/S/SU			3	ENG 101
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Elective	---	F/S/SU			3	
Semester 3						
Financial Accounting II	ACC 102	F/S/SU			3	ACC 101
Integrated Communications for Business	BUS 201	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, CIS 111
Business Elective	---	F/S/SU			3	
Humanities Elective	---	F/S/SU			3	
Social Science Elective	---	F/S/SU			3	
Semester 4						
Business Administration Capstone	BUS 250	F/S/SU			3	Over 42 credits completed in the Business Administration degree program
Business Elective	---	F/S/SU			3	
Elective	---	F/S/SU			3	
Humanities Elective	---	F/S/SU			3	
Science Elective or Lab Science Elective	---	F/S/SU			3-4	
Total Credits Required					**60-61**	

Program Notes:

- Students should discuss their choice of Electives with their Academic Advisors to ensure that they are taking the most suitable courses to meet their goals.

*Students pursuing Business Administration Career (A.S.) are encouraged to take either MAT 103 or MAT 122.

BUSINESS ADMINISTRATION CAREER - ADMINISTRATIVE PROFESSIONAL OPTION - Associate in Science (Program Code: BBAP)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Medical Law and Ethics or	ALH 106	F/S			3	ENG 096 with a grade of "C" or higher; or approp place score
E-Business Law & Ethics or	BSL 103	F/S				Coreq: CIS 111
Introduction to Law & Paralegal Practice	BSL 112	F				
Keyboarding Applications	BSS 101	F/S/SU			3	ENG 091 with a grade of "C" or higher; or approp place score
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Liberal Arts Elective	---	F/S/SU			3	
Mathematics Elective*	---	F/S/SU			3	
Semester 2						
Financial Accounting I	ACC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Medical Office Administration I or	ALH 151	F			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, Coreq: ALH 102, BSS 101
Business Office Procedures	BSS 104	F/S/SU				BSS 101, CIS 111, ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Advanced Microcomputer Applications	CIS 112	F/S/SU			3	CIS 111
Elective	---	F/S/SU			3	
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 3						
Medical/Dental Billing and Insurance or	BSS 112	F/S			3	ALH 102
Business Elective	---	F/S/SU				
Composition II	ENG 102	F/S/SU			3	ENG 101
Internet Communications	HUM 142	S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, Computer Literacy
Elective	---	F/S/SU			3	
Science Elective	---	F/S/SU			3-4	
Semester 4						
Career Strategies and Co-op Experience	BUS 299	F/S/SU			3	ALH 151 or BKK 102 or BSS 104
Database Management Application Development	CIS 243	F/S			3	CIS 105 or CIS 111
Social Science Elective	---	F/S/SU			3	
Integrated Communications for Business	BUS 201	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, CIS 111
Human Relations in Organizations	PSY 158	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Total Credits Required					**60-61**	

Program Notes:
*Students pursuing Business Administration Career (A.S.) are encouraged to take either MAT 103 or MAT 122.

ACCOUNTING ASSISTANT FINANCE ASSISTANT CERTIFICATE (Program Code: AF)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Financial Accounting I	ACC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Federal Taxation	ACC 211	F			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Personal Financial Planning	FIN 111	F/S/SU			3	MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Financial Accounting II	ACC 102	F/S/SU			3	ACC 101
Computerized Accounting	ACC 231	S			3	ACC 101, CIS 111
Business Elective*	---	F/S/SU			3	
Humanities Elective	---	F/S/SU			3	
Total Credits Required					**27**	

Program Notes:
*For Transfer into the Business Career Program, choose BSL 101, BSL 103, BUS 201, or MGT 101.

ACCOUNTS PAYABLE/ACCOUNTS RECEIVABLE CERTIFICATE (Program Code: APAR)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Strategies for College and Career or	ORT 110	F/S/SU			3	Coreq: ENG 090 and ENG 095 or approp place score
Self-Assessment and Career Planning	PSY 115					ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Bookkeeping I	BKK 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Accounting Software for Small Business	ACC 110	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Introduction to Business	MGT 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Total Credits Required					**16**	

Program Notes:

- Students complete this certificate with 16 college credits; 13 credits are transferable to the A.S. in Business Administration/Career Program (Program Code: BB).
- Students in ACC 110 will prepare for the QuickBooks certification exam.

BUSINESS ADMINISTRATION CERTIFICATE (Program Code: BAC)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Microcomputer Applications or	CIS 111	F/S/SU			3	
Advanced Microcomputer Applications	CIS 112	F/S/SU				CIS 111
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Mathematics Elective*	---	F/S/SU			3	
Introduction to Business	MGT 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Human Relations in Organizations	PSY 158	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Financial Accounting I	ACC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Integrated Communications for Business	BUS 201	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, CIS 111
Business Law I or	BSL 101	F/S/SU			3	
E-Business Law & Ethics	BSL 103	F/S				Coreq: CIS 111
Business Elective	---	F/S/SU			3	
Total Credits Required					**27**	

Program Notes:
*Students pursuing Business Administration Career (A.S.) are encouraged to take either MAT 103 or MAT 122.

CLERICAL OFFICE CERTIFICATE (Program Code: COBB)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Keyboarding Applications	BSS 101	F/S/SU			3	ENG 091 with a grade of "C" or higher; or approp place score
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Human Relations in Organizations	PSY 158	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Financial Accounting I	ACC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Business Office Procedures	BSS 104	F/S/SU			3	BSS 101, CIS 111, ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Integrated Communications for Business	BUS 201	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, CIS 111
Career Strategies and Co-op Experience	BUS 299	F/S/SU			3	ALH 151 or BKK 102 or BSS 104
Internet Communications	HUM 142	S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, Computer Literacy
Total Credits Required					**27**	

ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT CERTIFICATE (Program Code: ENS)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Entrepreneurship and Small Business Management	MGT 216	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Financial Accounting I	ACC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Personal Financial Planning	FIN 111	F/S/SU			3	MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Humanities Elective	---	F/S/SU			3	
Computerized Accounting	ACC 231	S			3	ACC 101, CIS 111
Principles of Microeconomics	ECO 216	F/S/SU			3	Coreq: ENG 101
Principles of Marketing	MRK 201	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Total Credits Required					**27**	

INSURANCE CERTIFICATE (Program Code: INS)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Principles of Liability and Property Insurance	INS 121	F			3	Coreq: ENG 101
Principles of Personal Insurance	INS 122	F			3	Coreq: ENG 101, INS 121
Semester 2						
Statistics	MAT 122	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Integrated Communications for Business	BUS 201	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, CIS 111
Principles of Commercial Insurance	INS 123	S			3	
Delivering Insurance Services	INS 125	S			3	
Business Elective	---	F/S/SU			3	
Total Credits Required					**27**	

Program Notes:

- Students must pass four national AICPCU examinations to graduate from this program.

MEDICAL OFFICE CERTIFICATE (Program Code: MSBB)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Medical Terminology	ALH 102	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Medical Law and Ethics	ALH 106	F/S			3	ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Keyboarding Applications	BSS 101	F/S/SU			3	ENG 091 with a grade of "C" or higher; or approp place score
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Business Office Procedures	BSS 104	F/S/SU			3	BSS 101, CIS 111, ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Medical/Dental Billing and Insurance	BSS 112	F/S			3	ALH 102
Electronic Health Records*	CIS 212	F/S			3	CIS 111, ALH 102
Career Strategies and Co-op Experience	BUS 299	F/S/SU			3	ALH 151 or BKK 102 or BSS 104
Total Credits Required					**27**	
Program Notes: *BSS 212 will be accepted in place of CIS 212 until Spring 2017.						

COMPLEMENTARY HEALTH - Associate in Science (Program Code: CHM)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Certification or Licensure Credentialing					28	
Semester 1						
Anatomy & Physiology I	BIO 111	F/S/SU			4	BIO 101 or High School Advanced Placement Biology, Coreq: ENG 101
Health and Healing	CHC 150	F			3	BIO 101, ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Fundamentals of Complementary Health	CHC 151	F			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Anatomy & Physiology II	BIO 112	F/S/SU			4	BIO 111
Nutrition	BIO 241	F/S/SU			3	BIO 101 or BIO 111
World Medicines: Harmony and Health	CHC 250	S			3	ENG 101
Applications in Integrative Health	CHC 255	S			3	CHC 150, CHC 151
Composition II	ENG 102	F/S/SU			3	ENG 101
Total Credits Required					**60**	

Program Notes:

- Students must complete a minimum of 15 credits at QCC to meet the residency requirement; nine of these 15 credits must be earned in CHC courses.

COMPUTER INFORMATION SYSTEMS - APPLICATIONS SPECIALIST OPTION - Associate in Science (Program Code: CIAS)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Financial Accounting I	ACC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
E-Business Law & Ethics	BSL 103	F/S			3	Coreq: CIS 111
Introduction to Information Technology	CIS 105	F/S/SU			3	
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Advanced Microcomputer Applications	CIS 112	F/S/SU			3	CIS 111
Introduction to Programming with C++	CIS 121	F/S			3	Coreq: CIS 111 or CIS 115
Introduction to Data Communication & Networks	CIS 141	F/S			3	CIS 111
Composition II	ENG 102	F/S/SU			3	ENG 101
College Mathematics I: Pre-Calculus	MAT 123	F/S/SU			3	MAT 100 or approp place score
Semester 3						
Web Page Development I	CIS 134	F/S			3	Coreq: CIS 111 or CIS 115
Database Management Application Development	CIS 243	F/S			3	CIS 105 or CIS 111
Career Elective*	---	F/S/SU			3	
Technical and Workplace Writing	ENG 205	F/S/SU			3	ENG 102, Computer Literacy
Psychology of Interpersonal Relations or Human Relations in Organizations	PSY 118 PSY 158	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 4						
Network Management	CIS 237	S			3	CIS 141
Systems Analysis & Design	CIS 241	F/S			3	CIS 121 or CIS 223 or CIS 226 or CIS 240
Computer Information Systems Cooperative Education	CIS 299	S			3-6	Approval of Program Coordinator or Coreq: CIS 241
Statistics	MAT 122	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Total Credits Required					**60-63**	

Program Notes:
*Any CIS 200-level course and not already required as part of the degree program.

COMPUTER INFORMATION SYSTEMS - DATABASE OPTION - Associate in Science (Program Code: CIDB)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Information Technology	CIS 105	F/S/SU			3	
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Introduction to Programming with C++	CIS 121	F/S			3	Coreq: CIS 111 or CIS 115
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
College Mathematics I: Pre-Calculus	MAT 123	F/S/SU			3	MAT 100 or approp place score
Semester 2						
.NET Programming I	CIS 223	S			3	CIS 111 or CIS 115, CIS 121
Database Management Concepts	CIS 244	S			3	CIS 105 or CIS 111 or CIS 115
Database Management Application Development	CIS 243	F/S			3	CIS 105 or CIS 111
Composition II	ENG 102	F/S/SU			3	ENG 101
Semester 3						
Internet Communications	HUM 142	S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, Computer Literacy
Introduction to Data Communication & Networks	CIS 141	F/S			3	CIS 111
Semester 4						
.NET Programming II	CIS 232	F/S			3	CIS 223
SQL Programming	CIS 228	F/S			3	CIS 105 or CIS 111 or CIS 115
Technical and Workplace Writing	ENG 205	F/S/SU			3	ENG 102, Computer Literacy
Statistics	MAT 122	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 5						
PL/SQL Programming	CIS 229	F/S			3	CIS 228
Systems Analysis & Design	CIS 241	F/S			3	CIS 121 or CIS 223 or CIS 226 or CIS 240
Database Administration	CIS 247	S			3	CIS 228, CIS 244
Computer Information Systems Cooperative Education	CIS 299	S			3-6	Approval of Program Coordinator or Coreq: CIS 241
Program Specific Elective*	---	F/S/SU			3	
Total Credits Required					**63-66**	

Program Notes:
*Program Specific Elective: Students may choose ACC 101, CSC 210, or BUS 205.

COMPUTER INFORMATION SYSTEMS - HEALTH INFORMATION OPTION - Associate in Science (Program Code: CIHI)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Medical Terminology	ALH 102	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Liberal Arts Elective	---	F/S/SU			3	
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
College Algebra	MAT 100	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Semester 2						
Medical Law and Ethics	ALH 106	F/S			3	ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Programming with C++	CIS 121	F/S			3	Coreq: CIS 111 or CIS 115
Web Page Development I	CIS 134	F/S			3	Coreq: CIS 111 or CIS 115
Introduction to Data Communication & Networks	CIS 141	F/S			3	CIS 111
Composition II	ENG 102	F/S/SU			3	ENG 101
Semester 3						
Principles of Human Biology	BIO 100	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Liberal Arts Elective	---	F/S/SU			3	
Semester 4						
Medical/Dental Billing and Insurance	BSS 112	F/S			3	ALH 102
Advanced Microcomputer Applications	CIS 112	F/S/SU			3	CIS 111
Database Management Application Development	CIS 243	F/S			3	CIS 105 or CIS 111
Electronic Health Records	CIS 212	F/S			3	CIS 111, ALH 102
Statistics	MAT 122	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Semester 5						
Systems Analysis & Design	CIS 241	F/S			3	CIS 121 or CIS 223 or CIS 226 or CIS 240
SQL Programming	CIS 228	F/S			3	CIS 105 or CIS 111 or CIS 115
Database Management Concepts	CIS 244	S			3	CIS 105 or CIS 111 or CIS 115
Computer Information Systems Cooperative Education	CIS 299	S			3-6	Approval of Program Coordinator or Coreq: CIS 241
Technical Writing for the Medical Environment	MSS 211	S			3	ENG 101
Total Credits Required					**67-70**	

COMPUTER INFORMATION SYSTEMS - TRANSFER OPTION - Associate in Science (Program Code: CITR)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Information Technology	CIS 105	F/S/SU			3	
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Introduction to Programming with C++	CIS 121	F/S			3	Coreq: CIS 111 or CIS 115
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
College Algebra	MAT 100	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Semester 2						
Financial Accounting I	ACC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
.NET Programming I	CIS 223	S			3	CIS 111 or CIS 115, CIS 121
Principles of Macroeconomics	ECO 215	F/S/SU			3	Coreq: ENG 101
Composition II	ENG 102	F/S/SU			3	ENG 101
College Mathematics I: Pre-Calculus	MAT 123	F/S/SU			3	MAT 100 or approp place score
Semester 3 (Summer)						
College Mathematics II: Trigonometry	MAT 124	F/S/SU			3	MAT 123 or approp place score
Humanities Elective	---	F/S/SU			3	
Semester 4						
Web Page Development I	CIS 134	F/S			3	Coreq: CIS 111 or CIS 115
.NET Programming II	CIS 232	F/S			3	CIS 223
Introduction to Java	CIS 226	F			3	CIS 121
Discrete Mathematics	MAT 125	F/S			3	MAT 123 or approp place score
Physics I	PHY 101	F			4	Coreq: MAT 124
Semester 5						
Principles of Microeconomics	ECO 216	F/S/SU			3	Coreq: ENG 101
Humanities Elective	---	F/S/SU			3	
Physics II	PHY 102	S			4	PHY 101
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Social Science Elective	---	F/S/SU			3	
Total Credits Required					**68**	

Program Notes:

- CIS transfer students should discuss their choice of Electives with their Academic Advisors and should also consult with the college to which they are planning to transfer in order to be sure they are making the most appropriate Elective selection.

COMPUTER INFORMATION SYSTEMS - WEB DEVELOPMENT & PROGRAMMING OPTION - Associate in Science (Program Code: CIWP)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Information Technology	CIS 105	F/S/SU			3	
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Introduction to Programming with C++	CIS 121	F/S			3	Coreq: CIS 111 or CIS 115
Web Page Development I	CIS 134	F/S			3	Coreq: CIS 111 or CIS 115
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
.NET Programming I	CIS 223	S			3	CIS 111 or CIS 115, CIS 121
SQL Programming	CIS 228	F/S			3	CIS 105 or CIS 111 or CIS 115
Composition II	ENG 102	F/S/SU			3	ENG 101
Statistics	MAT 122	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
CIS Elective*	---	F/S/SU			3	
Semester 3 (Summer)						
Introduction to Data Communication & Networks	CIS 141	F/S			3	CIS 111
Liberal Arts Elective	---	F/S/SU			3	
Semester 4						
.NET Programming II	CIS 232	F/S			3	CIS 223
Introduction to Java	CIS 226	F			3	CIS 121
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
CIS Elective*	---	F/S/SU			3	
Liberal Arts Elective	---	F/S/SU			3	
Semester 5						
Integrated Communications for Business	BUS 201	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, CIS 111
Systems Analysis & Design	CIS 241	F/S			3	CIS 121 or CIS 223 or CIS 226 or CIS 240
Computer Information Systems Cooperative Education	CIS 299	S			3-6	Approval of Program Coordinator or Coreq: CIS 241
CIS Elective*	---	F/S/SU			3	
Liberal Arts Elective*	---	F/S/SU			3	
Total Credits Required					**66-69**	

Program Notes:

- The Computer Information Systems Application Development program utilizes a virtual laboratory. Students enrolled in CIS 229, CIS 245, CIS 246, and CIS 247 will be required to bring their own laptop to class. Please contact the Program Coordinator for minimum hardware and software requirements.

*Any CIS 200-level course and not already required as part of the degree program. Below is a sample of possible Elective sequences based on career focus. The Elective sequence is not limited to this list. Please note prerequisites and semester offerings.

Suggested CIS Electives Course Sequence	Semester 2	Semester 4	Semester 5
Web Development	CIS 234 Web Page Development II	CIS 245 Database-Driven Web Pages	CIS 246 .NET Programming III
Database Design/Development	CIS 244 Database Management Concepts or CIS 243 Database Management Application Development	CIS 228 SQL Programming or CIS 243 Database Management Application Development	CIS 247 Database Administration or CIS 229 PL/SQL Programming
Programming	CIS 234 Web Page Development II or CIS 225 Programming with C++ II	CIS 245 Database-Driven Web Pages or CIS 230 Mobile Device Development	CIS 227 Java II or CIS 246 .NET Programming III or CIS 225 Programming with C++ II

APPLICATIONS SPECIALIST CERTIFICATE (Program Code: CAS)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Financial Accounting I	ACC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
E-Business Law & Ethics	BSL 103	F/S			3	Coreq: CIS 111
Introduction to Information Technology	CIS 105	F/S/SU			3	
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Advanced Microcomputer Applications	CIS 112	F/S/SU			3	CIS 111
Introduction to Programming with C++	CIS 121	F/S			3	Coreq: CIS 111 or CIS 115
Introduction to Data Communication & Networks	CIS 141	F/S			3	CIS 111
CIS Career Elective*	---	F/S/SU			3	
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Total Credits Required					**27**	

Program Notes:

- Students should note that some of the program specific courses require ENG and/or MAT prerequisites.

*Any CIS 200-level course.

DATABASE CERTIFICATE (Program Code: DB)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Internet Communications	HUM 142	S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, Computer Literacy
Introduction to Programming with C++	CIS 121	F/S			3	Coreq: CIS 111 or CIS 115
Introduction to Data Communication & Networks	CIS 141	F/S			3	CIS 111
Semester 2						
.NET Programming I	CIS 223	S			3	CIS 111 or CIS 115, CIS 121
SQL Programming	CIS 228	F/S			3	CIS 105 or CIS 111 or CIS 115
Database Management Application Development	CIS 243	F/S			3	CIS 105 or CIS 111
Database Management Concepts	CIS 244	S			3	CIS 105 or CIS 111 or CIS 115
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Total Credits Required					**27**	

Program Notes:

- Students should note that some of the program specific courses require ENG and/or MAT prerequisites.

WEB APPLICATIONS CERTIFICATE (Program Code: CWA)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Introduction to Information Technology	CIS 105	F/S/SU			3	
Introduction to Programming with C++	CIS 121	F/S			3	Coreq: CIS 111 or CIS 115
Web Page Development I	CIS 134	F/S			3	Coreq: CIS 111 or CIS 115
Semester 2						
Internet Server Technologies	CIS 135	S			3	CIS 105
.NET Programming I	CIS 223	S			3	CIS 111 or CIS 115, CIS 121
Web Page Development II	CIS 234	F/S			3	CIS 121, CIS 134
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Internet Communications	HUM 142	S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, Computer Literacy
Total Credits Required					**27**	

COMPUTER SCIENCE TRANSFER - Associate in Science (Program Code: CS)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Calculus I	MAT 233	F/S/SU			4	MAT 124
Computer Science I	CSC 108	F/S/SU			4	CIS 111, ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, Coreq: MAT 100 or approp place score
Lab Science	---	F/S/SU			4	
Social Science Elective	---	F/S/SU			3	
Semester 2						
Composition II	ENG 102	F/S/SU			3	ENG 101
Calculus II	MAT 234	F/S/SU			4	MAT 233
Computer Science II	CSC 109	F/S/SU			4	CSC 106 or CSC 108
Lab Science	---	F/S/SU			4	
Social Science Elective	---	F/S/SU			3	
Semester 3						
Programming with Data Structures	CSC 211	F/S/SU			4	CSC 107 or CSC 109 or CIS 225
Humanities Elective	---	F/S/SU			3	
Discrete Mathematics	MAT 125	F/S			3	MAT 123 or approp place score
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Humanities Elective	---	F/S/SU			3	
Semester 4						
Software Engineering I	CSC 212	F/S			4	CSC 109
Probability & Statistics for Engineers and Scientists	MAT 237	F/S/SU			3	MAT 234
Introduction to Architecture and Assembly Language	CSC 208	F/S/SU			4	CSC 107 or CSC 109
Social Science Elective	---	F/S/SU			3	
Total Credits Required					**66**	

Program Notes:

- Students should note that most required courses carry minimum prerequisites of CIS 111 and MAT 100.
- The Computer Science Transfer program utilizes a virtual laboratory. Students enrolled in all CSC courses required in this program will be required to bring their own PC/Windows laptop to class. Please see: www.qcc.edu/academics/engineering-technology/computer-science-transfer.
- WPI awards no transfer credit for any online course work. Students are advised to consult with their transfer institution(s) of choice for similar policies.

COMPUTER SYSTEMS ENGINEERING TECHNOLOGY - Associate in Science (Program Code: SE)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Windows Client Operating Systems	CSC 141	F/S/SU			4	
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Computer Hardware and Support	CSC 233	F/S/SU			4	Coreq: CSC 141
Telecommunications in Business	CST 207	F/S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
IT Help Desk Concepts	CSC 105	F/S/SU			2	
Social Science Elective	---	F/S/SU			3	
Semester 2						
Storage Technologies	CSC 210	S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Windows Server Operating Systems	CSC 241	F/SU			3	CSC 141
Networking Technologies	CSC 234	F/S/SU			4	Coreq: CSC 141
Composition II	ENG 102	F/S/SU			3	ENG 101
Project Management	BUS 205	F/S			3	ENG 101
Mathematics Elective*	---	F/S/SU			3	
Semester 3						
Systems Programming and Scripting	CSC 201	F/S			3	CSC 141, Coreq: CST 245
CSET Elective**	---	F/S/SU			1	
CSET Elective**	---	F/S/SU			1	
Internetworking Principles and Protocols	CST 231	F/S			3	Coreq: CSC 234
Network Infrastructure Management	CST 235	F/S/SU			3	CSC 234, Coreq: CST 231
UNIX Operating Systems I	CST 245	F/S/SU			4	Coreq: CSC 141
Liberal Arts Elective	---	F/S/SU			3-4	
Semester 4						
IT Security Foundations	CST 205	S/SU			3	CSC 141, CSC 234
Enterprise Networking and Application Infrastructure	CST 238	S/SU			3	Coreq: CSC 241
Routing Technologies	CST 240	F/S			3	Coreq: CST 231
Cooperative Work Experience & Seminar	CST 299	F/S/SU			3	Approval of Program Coordinator
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Liberal Arts Elective	---	F/S/SU			3-4	
Total Credits Required					**74-76**	

Program Notes:

- Students should note that many required courses have ENG and/or MAT prerequisites.

*Mathematics Elective: 100-level or higher.

**CSET Electives should be chosen from the following: CST 250, CST 251, CST 252, CST 253, and CST 254.

COMPUTER SYSTEMS ENGINEERING TECHNOLOGY - FORENSICS OPTION - Associate in Science (Program Code: SEF)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Windows Client Operating Systems	CSC 141	F/S/SU			4	
Introduction to Criminal Justice	CRJ 101	F/S/SU			3	ENG 091 with a grade of "C" or higher; or approp place score
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
E-Business Law & Ethics	BSL 103	F/S			3	Coreq: CIS 111
Mathematics Elective*	---	F/S/SU			3	
Semester 2						
Criminal Investigation	CRJ 207	F/S/SU			3	ENG 101
Windows Server Operating Systems	CSC 241	F/SU			3	CSC 141
Networking Technologies	CSC 234	F/S/SU			4	Coreq: CSC 141
Composition II	ENG 102	F/S/SU			3	ENG 101
Social Science Elective**	---	F/S/SU			3	
Semester 3						
Evidence & Court Procedure	CRJ 211	F/S/SU			3	ENG 101
Internetworking Principles and Protocols	CST 231	F/S			3	Coreq: CSC 234
UNIX Operating Systems I	CST 245	F/S/SU			4	Coreq: CSC 141
Liberal Arts Elective***	---	F/S/SU			3	
Liberal Arts Elective***	---	F/S/SU			3	
Semester 4						
Computer Hardware and Support	CSC 233	F/S/SU			4	Coreq: CSC 141
IT Security Foundations	CST 205	S/SU			3	CSC 141, CSC 234
Computer Forensics	CST 206	F/S			3	CSC 141
Cooperative Work Experience & Seminar	CST 299	F/S/SU			3	Approval of Program Coordinator
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Total Credits Required					**64**	

Program Notes:

- Students should note that many required courses have ENG and/or MAT prerequisites.

*Mathematics Elective: 100-level or higher.
**Social Science Elective in program area.
***Liberal Arts Elective in Liberal Arts program area.

COMPUTER FORENSICS CERTIFICATE (Program Code: CF)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Windows Client Operating Systems	CSC 141	F/S/SU			4	
Computer Hardware and Support	CSC 233	F/S/SU			4	Coreq: CSC 141
Networking Technologies	CSC 234	F/S/SU			4	Coreq: CSC 141
Introduction to Criminal Justice	CRJ 101	F/S/SU			3	ENG 091 with a grade of "C" or higher; or approp place score
Semester 2						
Evidence & Court Procedure	CRJ 211	F/S/SU			3	ENG 101
UNIX Operating Systems I	CST 245	F/S/SU			4	Coreq: CSC 141
Computer Forensics	CST 206	F/S			3	CSC 141
Criminal Investigation	CRJ 207	F/S/SU			3	ENG 101
Total Credits Required					**28**	

Program Notes:

- Students should note that many required courses have ENG and/or MAT prerequisites.

NETWORK ASSOCIATE CERTIFICATE (Program Code: NAC)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Windows Client Operating Systems	CSC 141	F/S/SU			4	
Networking Technologies	CSC 234	F/S/SU			4	Coreq: CSC 141
UNIX Operating Systems I	CST 245	F/S/SU			4	Coreq: CSC 141
Telecommunications in Business	CST 207	F/S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Lync Server Administration	CST 253	S			1	CSC 141, CSC 234, Coreq: CST 231
Storage Technologies	CSC 210	S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Internetworking Principles and Protocols	CST 231	F/S			3	Coreq: CSC 234
Network Infrastructure Management	CST 235	F/S/SU			3	CSC 234, Coreq: CST 231
Routing Technologies	CST 240	F/S			3	Coreq: CST 231
Total Credits Required					**28**	

Program Notes:

- Students should note that many required courses have ENG and/or MAT prerequisites.

NETWORK PROFESSIONAL CERTIFICATE (Program Code: NPC)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Technical and Workplace Writing or	ENG 205	F/S/SU			3	ENG 102, Computer Literacy
Integrated Communications for Business	BUS 201					ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, CIS 111
Windows Server Operating Systems	CSC 241	F/SU			3	CSC 141
Wide Area Networks	CST 265	F			3	CST 240
Semester 2						
IT Security Foundations	CST 205	S/SU			3	CSC 141, CSC 234
Project Management	BUS 205	F/S			3	ENG 101
Enterprise Network Convergence	CST 260	S			3	CST 240, CST 207
E-Business Law & Ethics	BSL 103	F/S			3	Coreq: CIS 111
Web Server Administration	CST 250	S			1	CST 245 or CSC 141
Exchange Server Administration	CST 252	S			1	CSC 241
Lync Server Administration	CST 253	S			1	CSC 141, CSC 234, Coreq: CST 231
Total Credits Required					**27**	

Program Notes:

- Students should note that many required courses have ENG and/or MAT prerequisites.

NETWORK TECHNICIAN CERTIFICATE (Program Code: NTC)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Windows Client Operating Systems	CSC 141	F/S/SU			4	
Networking Technologies	CSC 234	F/S/SU			4	Coreq: CSC 141
Storage Technologies	CSC 210	S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Telecommunications in Business	CST 207	F/S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Internetworking Principles and Protocols	CST 231	F/S			3	Coreq: CSC 234
Total Credits Required					**17**	

Program Notes:

- Students should note that many required courses have ENG and/or MAT prerequisites.

CRIMINAL JUSTICE - Associate in Science (Program Code: CJ)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Criminal Justice	CRJ 101	F/S/SU			3	ENG 091 with a grade of "C" or higher; or approp place score
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introductory Sociology (Principles) or	SOC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Cultural Anthropology	ANT 111					
Semester 2						
Criminal Law	CRJ 111	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Composition II	ENG 102	F/S/SU			3	ENG 101
Valuing Diversity	IDS 101	F/S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Mathematics Elective* or	---	F/S/SU			3-4	
Lab Science Elective	---					
Semester 3						
Criminal Investigation	CRJ 207	F/S/SU			3	ENG 101
Technologies in Criminal Justice	CRJ 208	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
United States Government	PSC 201	F/S/SU			3	ENG 101
The Dynamics of Racial & Ethnic Relations	SOC 211	F/S/SU			3	ENG 101
Juvenile Delinquency & the Juvenile Justice System	SOC 212	F/S/SU			3	ENG 101
Semester 4						
Evidence & Court Procedure	CRJ 211	F/S/SU			3	ENG 101
Criminology	CRJ 213	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Ethics or	PHI 131	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Legal and Ethical Concepts in Human Services	HUS 231	F/S				HUS 101, HUS 121, HUS 141
State & Local Government	PSC 221	F/S/SU			3	ENG 101
Criminal Justice Elective	---	F/S/SU			3	
Elective	---	F/S/SU			3	
Total Credits Required					**60-61**	
Program Notes: *MAT 100 or higher.						

LAW ENFORCEMENT CERTIFICATE (Program Code: LEC)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Criminal Justice	CRJ 101	F/S/SU			3	ENG 091 with a grade of "C" or higher; or approp place score
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introductory Sociology (Principles)	SOC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Criminal Law	CRJ 111	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Evidence & Court Procedure	CRJ 211	F/S/SU			3	ENG 101
Criminology	CRJ 213	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Policing	CRJ 231	F/S/SU			3	ENG 091 with a grade of "C" or higher; or approp place score
Total Credits Required					**27**	

DENTAL ASSISTING CERTIFICATE (Program Code: DA)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1 (Fall)						
Clinical Science I	DAS 101	F			3	Coreq: BIO 100, DAS 151
Dental Assisting I	DAS 151	F			4	Coreq: DAS 101
Dental Sciences	DAS 102	F			3	DAS students only, Coreq: DAS 101
Dental Radiology	DHY 131	F			3	
Dental Materials	DHY 241	F			2	
Principles of Human Biology*	BIO 100	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2 (Intersession)						
Dental Assisting Clinical Practicum	DAS 153	IN			2	BIO 100, DAS 101, DAS 151, DHY 131
Semester 3 (Spring)						
Clinical Science II	DAS 105	S			4	DAS 101
Practice Management	DAS 111	S			3	
Introduction to Oral Pathology	DAS 124	S			1	DAS students only
Dental Assisting II	DAS 155	S			6	DAS 153
Composition I*	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Total Credits Required					**38**	

Program Notes:

- The program in Dental Assisting is accredited by the Commission on Dental Accreditation. The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission of Dental Accreditation can be contacted at 312.440.4653 or at 211 East Chicago Avenue, Chicago, Il 60611.
- In order to continue in the program, students must achieve a grade of "C" or higher in all DAS courses and in BIO 100, PHY 131, and DHY 241 courses.
- DHY course with a "C" or higher grade may be transferred to the Dental Hygiene Program within two years of completion of the Dental Assisting Program. Students may need to retake the two "core DHY courses" if more than two years have lapsed.

*It is suggested that students take BIO 100 and ENG 101 prior to entering the program.

ALLIED DENTAL SERVICES - HEALTH SCIENCES OPTION - Associate in Science (Program Code: ADHS)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Clinical Science I	DAS 101	F			3	Coreq: BIO 100, DAS 151
Dental Sciences	DAS 102	F			3	DAS students only, Coreq: DAS 101
Dental Assisting I	DAS 151	F			4	Coreq: DAS 101
Dental Radiology	DHY 131	F			3	
Dental Materials	DHY 241	F			2	
Elective	---	F/S/SU			3-4	
Semester 2						
Dental Assisting Clinical Practicum	DAS 153	IN			2	BIO 100, DAS 101, DAS 151, DHY 131
Semester 3						
Clinical Science II	DAS 105	S			4	DAS 101
Practice Management	DAS 111	S			3	
Introduction to Oral Pathology	DAS 124	S			1	DAS students only
Dental Assisting II	DAS 155	S			6	DAS 153
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 4						
Anatomy & Physiology I	BIO 111	F/S/SU			4	BIO 101 or High School Advanced Placement Biology, Coreq: ENG 101
Introduction to the Chemistry of Living Systems	CHM 101	F/S/SU			4	CHM 090 or one year of High School Chemistry, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introductory Sociology (Principles)	SOC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 5						
Anatomy & Physiology II	BIO 112	F/S/SU			4	BIO 111
Medical Microbiology	BIO 232	F/S/SU			4	BIO 112 or CHM 123 or CHM 105
Introduction to Pharmacology for Allied Health Professionals	ALH 103	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Composition II	ENG 102	F/S/SU			3	ENG 101
Total Credits Required					**68-69**	

ALLIED DENTAL SERVICES - DENTAL OFFICE MANAGEMENT OPTION - Associate in Science (Program Code: ADDO)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Clinical Science I	DAS 101	F			3	Coreq: BIO 100, DAS 151
Dental Sciences	DAS 102	F			3	DAS students only, Coreq: DAS 101
Dental Assisting I	DAS 151	F			4	Coreq: DAS 101
Dental Radiology	DHY 131	F			3	
Dental Materials	DHY 241	F			2	
Principles of Human Biology	BIO 100	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Dental Assisting Clinical Practicum	DAS 153	IN			2	BIO 100, DAS 101, DAS 151, DHY 131
Semester 3						
Clinical Science II	DAS 105	S			4	DAS 101
Practice Management	DAS 111	S			3	
Introduction to Oral Pathology	DAS 124	S			1	DAS students only
Dental Assisting II	DAS 155	S			6	DAS 153
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 4						
Financial Accounting I	ACC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Introduction to Medical Terminology	ALH 102	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Medical/Dental Billing and Insurance	BSS 112	F/S			3	ALH 102
Medical Law and Ethics or	ALH 106	F/S			3	ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Microcomputer Applications	CIS 111	F/S/SU				
Semester 5						
Dental Externship	DAS 299	S			3	BSS 111, BSS 112
Composition II	ENG 102	F/S/SU			3	ENG 101
Human Relations in Organizations	PSY 158	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Elective	---	F/S/SU			3	
Total Credits Required					**68**	

ALLIED DENTAL SERVICES - DENTAL SALES/MARKETING OPTION - Associate in Science (Program Code: ADDS)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Clinical Science I	DAS 101	F			3	Coreq: BIO 100, DAS 151
Dental Sciences	DAS 102	F			3	DAS students only, Coreq: DAS 101
Dental Assisting I	DAS 151	F			4	Coreq: DAS 101
Dental Radiology	DHY 131	F			3	
Dental Materials	DHY 241	F			2	
Principles of Human Biology	BIO 100	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Dental Assisting Clinical Practicum	DAS 153	IN			2	BIO 100, DAS 101, DAS 151, DHY 131
Semester 3						
Clinical Science II	DAS 105	S			4	DAS 101
Practice Management	DAS 111	S			3	
Introduction to Oral Pathology	DAS 124	S			1	DAS students only
Dental Assisting II	DAS 155	S			6	DAS 153
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 4						
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Mathematics Elective	---	F/S/SU			3	
Principles of Marketing	MRK 201	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Elective	---	F/S/SU			3	
Semester 5						
Dental Externship	DAS 299	S			3	BSS 111, BSS 112
Composition II	ENG 102	F/S/SU			3	ENG 101
Sales & Sales Management	MRK 221	F/S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Human Relations in Organizations	PSY 158	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Total Credits Required					**68**	

DENTAL HYGIENE - Associate in Science (Program Code: DH)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1 (Summer I)						
Anatomy & Physiology I	BIO 111	F/S/SU			4	BIO 101 or High School Advanced Placement Biology, Coreq: ENG 101
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2 (Summer II)						
Anatomy & Physiology II	BIO 112	F/S/SU			4	BIO 111
Introduction to the Chemistry of Living Systems	CHM 101	F/S/SU			4	CHM 090 or one year of High School Chemistry, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Dental Anatomy	DHY 125	SU			1	
Semester 3 (Fall)						
Dental Hygiene Process I	DHY 111	F			4	BIO 112, CHM 101, DHY 125
Anatomy of the Head & Neck	DHY 121	F			2	Admission to Dental Assisting or Dental Hygiene program
Oral Histology & Embryology	DHY 123	F			2	
Dental Radiology	DHY 131	F			3	
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 4 (Intersession)						
Practice Management for the Dental Hygienist	DHY 116	IN			1	DHY 111
Semester 5 (Spring)						
Nutrition in Oral and Systemic Health	DHY 250	S			2	BIO 112, Coreq: DHY 112
Dental Hygiene Process II	DHY 112	S			5	BIO 112, CHM 101, DHY 111, DHY 131, Coreq: DHY 250
Periodontology	DHY 124	S			2	
Oral Pathology	DHY 126	S			2	
Local Anesthesia for the Dental Hygienist	DHY 150	S			2	BIO 111, CHM 101, DHY 111, DHY 121, DHY 125, DHY 131, Coreq: BIO 112, DHY 112
Semester 6 (Summer I)						
Medical Microbiology	BIO 232	F/S/SU			4	BIO 112 or CHM 123 or CHM 105
Composition II	ENG 102	F/S/SU			3	ENG 101
Semester 7 (Summer II)						
Dental Hygiene Process Summer Clinic	DHY 113	SU			1	DHY 112, DHY 250
Semester 8 (Fall)						
Health Promotion	DHY 201	F			2	
Dental Hygiene Process III	DHY 211	F			5	BIO 112, DHY 113
Dental Pharmacology	DHY 231	F			2	
Dental Materials	DHY 241	F			2	
Introductory Sociology (Principles)	SOC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Continued next page						

DENTAL HYGIENE - Associate in Science (Program Code: DH)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 9 (Spring)						
Dental Ethics, Jurisprudence & Professional Issues	DHY 202	S			2	
Dental Hygiene Process IV	DHY 212	S			6	DHY 211
Dental Public Health	DHY 243	S			2	
Liberal Arts Elective	---	F/S/SU			3	
Total Credits Required					**79**	

Program Notes:

- BIO 111, BIO 112, BIO 232, CHM 101, and all professional courses must be completed with a grade of "C" or higher in order to continue in the program.
- Enrollment in courses designated as DHY is limited to Dental Hygiene majors only, unless otherwise noted.

EARLY CHILDHOOD EDUCATION - PRESCHOOL OPTION - Associate in Arts (Program Code: ECPS)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Early Childhood Education	ECE 101	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Mathematics for Educators I	MAT 111	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Science Elective*	---	F/S/SU			3-4	
Semester 2						
Growth & Development of the Young Child	ECE 102	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Family Issues & Dynamics	ECE 112	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Composition II	ENG 102	F/S/SU			3	ENG 101
Humanities Elective**	---	F/S/SU			3	
Science Elective*	---	F/S/SU			3-4	
Semester 3						
Curriculum for Young Children I	ECE 231	F			3	ENG 101, ECE 101, ECE 102 or PSY 123, Coreq: ECE 251, ECE 253
Integrating Theory and Practice I: Guidance of Young Children	ECE 251	F			3	ENG 101, ECE 101, ECE 112, ECE 102 or PSY 123, Coreq: ECE 231, ECE 253
Supervised Student Participation I	ECE 253	F			4	ENG 101, ECE 101, ECE 112, ECE 102 or PSY 123, Coreq: ECE 231, ECE 251
History Elective***	---	F/S/SU			3	
Children's Literature	ENG 200	F/S/SU			3	ENG 102
Semester 4						
Curriculum for Young Children II	ECE 232	S			3	ENG 101, ECE 231, ECE 251, ECE 253, Coreq: ECE 252, ECE 254
Integrating Theory and Practice II: Observing, Recording and Authentic Assessment	ECE 252	S			3	ECE 251, Coreq: ECE 232, ECE 254
Supervised Student Participation II	ECE 254	S			4	ENG 101, ECE 231, ECE 251, ECE 253, Coreq: ECE 232, ECE 252
ECE Elective	---	F/S/SU			3	
Social Science Elective****	---	F/S/SU			3	
Humanities Elective**	---	F/S/SU			3	
Total Credits Required					**65-67**	

Program Notes:
*Students transferring to any four-year college, public or private, should take at least one Lab Science Elective for four credits; SCI 105 and SCI 106 are recommended.
**Humanities course designations include: ART, ENG, FRC, GER, HUM, MUS, PHI, SPH, and SPN.
***History Elective to be selected from the following: HST 104, HST 105, HST 106, HST 115, or HST 116.
****Social Science Elective recommended to be selected from the following: ECO 215, ECO 216, GEO 210, PSC 201, PSC 212, or PSC 221.

EARLY CHILDHOOD EDUCATION - PRE-K TO GRADE 2 OPTION - Associate in Arts (Program Code: ECPK)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Early Childhood Education	ECE 101	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Mathematics for Educators I	MAT 111	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Integrated Science: Earth and Space	SCI 105	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Semester 2						
Growth & Development of the Young Child	ECE 102	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Composition II	ENG 102	F/S/SU			3	ENG 101
Humanities Elective*	---	F/S/SU			3	
Integrated Science: The Living World	SCI 106	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Family Issues & Dynamics	ECE 112	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Semester 3						
Curriculum for Young Children I	ECE 231	F			3	ENG 101, ECE 101, ECE 102 or PSY 123, Coreq: ECE 251, ECE 253
Integrating Theory and Practice I: Guidance of Young Children	ECE 251	F			3	ENG 101, ECE 101, ECE 112, ECE 102 or PSY 123, Coreq: ECE 231, ECE 253
Supervised Student Participation I	ECE 253	F			4	ENG 101, ECE 101, ECE 112, ECE 102 or PSY 123, Coreq: ECE 231, ECE 251
Mathematics for Educators II	MAT 112	F/S			3	MAT 111
History Elective**	---	F/S/SU			3	
Semester 4						
Humanities Elective*	---	F/S/SU			3	
Social Science Elective***	---	F/S/SU			3	
Liberal Arts Elective	---	F/S/SU			3	
Children's Literature	ENG 200	F/S/SU			3	ENG 102
Total Credits Required					**60**	

Program Notes:

- Students wishing to receive DEEC Lead Teacher certification will need to complete ECE 232, ECE 252, and ECE 254.
- Students are advised to consult the requirements of the college to which they plan to transfer and to use student's credits to fulfill the academic major requirements of that institution.
- It is highly recommended that students take the CLST portion of the Teacher Test (MTEL) after completing Semester 2 to ensure continuation in the appropriate program.

*Humanities course designations include: ART, ENG, FRC, GER, HUM, MUS, PHI, SPH, and SPN.
**History Elective to be selected from the following: HST 104, HST 105, HST 106, HST 115, or HST 116.
***Social Science Elective recommended to be selected from the following: ECO 215, ECO 216, GEO 210, PSC 201, PSC 212, or PSC 221.

PRESCHOOL ASSISTANT TEACHER CERTIFICATE (Program Code: PATC)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Early Childhood Education	ECE 101	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Family Issues & Dynamics	ECE 112	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
ECE Elective	---	F/S/SU			3	
Planning Programs for Young Children	ECE 131	S			3	ENG 096 with a grade of "C" or higher; or approp place score
Growth & Development of the Young Child or	ECE 102	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Human Development I: Conception to Adolescence*	PSY 123	F/S				PSY 101
Fieldwork with Young Children I	ECE 202	S			3	
Discipline: Guiding Children's Behavior	ECE 255	F/S			3	ENG 096 with a grade of "C" or higher; or approp place score
Total Credits Required					**24**	
Program Notes: *Students wishing to transfer should take PSY 123.						

INFANT TODDLER TRAINING CERTIFICATE (Program Code: IC)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Early Childhood Education	ECE 101	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Health, Safety & Nutrition in Programs for Young Children	ECE 103	F			3	ENG 096 with a grade of "C" or higher; or approp place score
Infant & Toddler Curriculum and Development	ECE 221	F			3	ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Family Issues & Dynamics	ECE 112	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Fieldwork with Infants and Toddlers (Observation and Experience)	ECE 123	S			3	ENG 096 with a grade of "C" or higher; or approp place score
Growth & Development of the Young Child or	ECE 102	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Human Development I: Conception to Adolescence*	PSY 123	F/S				PSY 101
ECE Elective	---	F/S/SU			3	
Total Credits Required					**24**	
Program Notes: *Students wishing to transfer should take PSY 123.						

LEADERSHIP IN EARLY EDUCATION AND CARE CERTIFICATE (Program Code: EEC)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Administration in Early Education and Care	ECE 243	F			3	ECE 102 or PSY 123
Supervision, Coaching and Mentoring in Early Childhood Settings	ECE 238	F			3	ENG 101
Semester 2						
Communication for Collaboration	ECE 244	S			3	ECE 102 or PSY 123
Advocacy and Ethics for Social Justice in Early Care and Education	ECE 245	S			3	ECE 102 or PSY 123
Seminar and Field Experience: Leadership in Early Education and Care	ECE 246	S			3	ECE 102 or PSY 123
Total Credits Required					**15**	

SCHOOL AGE CERTIFICATE (Program Code: CSA)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Early Childhood Education	ECE 101	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Family Issues & Dynamics	ECE 112	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
ECE Elective	---	F/S/SU			3	
Growth & Development of the Young Child or	ECE 102	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Human Development I: Conception to Adolescence*	PSY 123	F/S				PSY 101
Curriculum Planning for School Age Children	ECE 113	S			3	ENG 096 with a grade of "C" or higher; or approp place score
Discipline: Guiding Children's Behavior	ECE 255	F/S			3	ENG 096 with a grade of "C" or higher; or approp place score
Fieldwork with School-Age Children	ECE 204	S			3	ENG 096 with a grade of "C" or higher; or approp place score, ECE 102 or PSY 123
Total Credits Required					**24**	
Program Notes: *Students wishing to transfer should take PSY 123.						

ELECTRONICS ENGINEERING TECHNOLOGY - BIOMEDICAL INSTRUMENTATION OPTION - Associate in Science (Program Code: EEBI)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Windows Client Operating Systems	CSC 141	F/S/SU			4	
Electronics I	ELT 103	F/S			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Digital Computer Circuits	ELT 121	F/S			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
College Mathematics I: Pre-Calculus	MAT 123	F/S/SU			3	MAT 100 or approp place score
Semester 2						
Networking Technologies	CSC 234	F/S/SU			4	Coreq: CSC 141
Electronics II	ELT 104	F/S			4	ELT 103
Embedded Microcontrollers	ELT 130	S			4	ELT 103, ELT 121
College Mathematics II: Trigonometry	MAT 124	F/S/SU			3	MAT 123 or approp place score
Semester 3						
Instrumentation and Control Technology	ELM 251	F/S			4	ELT 104, ELT 130
ELT or ELM Program Elective*	---	F/S/SU			4	
Physics I	PHY 101	F			4	Coreq: MAT 124
Composition II	ENG 102	F/S/SU			3	ENG 101
Semester 4						
Mechatronic Systems	ELM 258	F/S			4	ELT 130
ELT or ELM Program Elective*	---	F/S/SU			4	
Cooperative Work Experience & Seminar	ELT 299	F/S/SU			3-6	ELT 104, ELT 130
Principles of Human Biology	BIO 100	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Social Science Elective	---	F/S/SU			3	
Total Credits Required					**66-69**	

Program Notes:

- Students should note that many required courses have ENG and/or MAT prerequisites.

*ELT or ELM Program Elective must be a 200-level course.

ELECTRONICS ENGINEERING TECHNOLOGY - MECHATRONICS OPTION - Associate in Science (Program Code: EEMO)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Electronics I	ELT 103	F/S			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Digital Computer Circuits	ELT 121	F/S			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Mathematics Elective*	---	F/S/SU			3	
Semester 2						
Electronics II	ELT 104	F/S			4	ELT 103
Embedded Microcontrollers	ELT 130	S			4	ELT 103, ELT 121
Windows Client Operating Systems	CSC 141	F/S/SU			4	
Composition II	ENG 102	F/S/SU			3	ENG 101
Mathematics Elective*	---	F/S/SU			3	
Semester 3						
Instrumentation and Control Technology	ELM 251	F/S			4	ELT 104, ELT 130
Introduction to Programmable Logic Controllers	ELM 257	F/S			4	ELT 121
Networking Technologies	CSC 234	F/S/SU			4	Coreq: CSC 141
Lab Science Elective**	---	F/S/SU			4	
Semester 4						
Mechatronic Systems	ELM 258	F/S			4	ELT 130
Industrial Robotics	ELM 260	F/S			4	ELT 130
Cooperative Work Experience & Seminar	ELM 299	F/S/SU			3-6	ELT 104, ELT 130
Liberal Arts Elective***	---	F/S/SU			3-4	
Social Science Elective****	---	F/S/SU			3	
Total Credits Required					**65-69**	

Program Notes:

- Students should note that many required courses have ENG and/or MAT prerequisites.

*Recommended Mathematics Electives: For students whose primary goal is employment after graduation, MAT 100 and MAT 122 are recommended; for students intending to transfer to a four-year college, MAT 123 and MAT 124 are recommended.

**Recommended Lab Science Elective for students intending to transfer to a four-year college: PHY 101.

***Recommended Liberal Arts Elective: SPH 101.

****Recommended Social Science Elective: PSY 118.

ELECTRONICS ENGINEERING TECHNOLOGY - PHOTONICS OPTION - Associate in Science (Program Code: ELPH)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Windows Client Operating Systems	CSC 141	F/S/SU			4	
Electronics I	ELT 103	F/S			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Digital Computer Circuits	ELT 121	F/S			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
College Mathematics I: Pre-Calculus	MAT 123	F/S/SU			3	MAT 100 or approp place score
Semester 2						
Networking Technologies	CSC 234	F/S/SU			4	Coreq: CSC 141
Electronics II	ELT 104	F/S			4	ELT 103
Embedded Microcontrollers	ELT 130	S			4	ELT 103, ELT 121
College Mathematics II: Trigonometry	MAT 124	F/S/SU			3	MAT 123 or approp place score
Semester 3						
Introduction to Photonics	ELT 120	F/S			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Instrumentation and Control Technology	ELM 251	F/S			4	ELT 104, ELT 130
Lab Science Elective	---	F/S/SU			4	
Composition II	ENG 102	F/S/SU			3	ENG 101
Semester 4						
Photonics Technology	ELT 222	F/S			4	ELT 120
ELT or ELM Program Elective*	---	F/S/SU			4	
Cooperative Work Experience & Seminar	ELM 299	F/S/SU			3	ELT 104, ELT 130
Social Science Elective	---	F/S/SU			3	
Total Credits Required					**62**	

Program Notes:

- Students should note that many required courses have ENG and/or MAT prerequisites.

*ELT or ELM Program Elective must be a 200-level course.

ELECTRONICS TECHNOLOGY CERTIFICATE (Program Code: CE)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Electronics I	ELT 103	F/S			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Digital Computer Circuits	ELT 121	F/S			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
College Algebra	MAT 100	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Semester 2						
Electronics II	ELT 104	F/S			4	ELT 103
Embedded Microcontrollers	ELT 130	S			4	ELT 103, ELT 121
Windows Client Operating Systems	CSC 141	F/S/SU			4	
Composition II	ENG 102	F/S/SU			3	ENG 101
Total Credits Required					**29**	

Program Notes:

- Students should note that many required courses have ENG and/or MAT prerequisites.

PARAMEDIC TECHNOLOGY - Associate in Science (Program Code: EM)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Anatomy & Physiology I	BIO 111	F/S/SU			4	BIO 101 or High School Advanced Placement Biology, Coreq: ENG 101
Introduction to Advanced Pre-Hospital Care	EMT 108	F/S			4	Coreq: BIO 100 or BIO 111, EMT 109, EMT 110, EMT 112, EMT 114
Pharmacology for Advanced Pre-Hospital Care	EMT 109	F/S			2	Coreq: BIO 100 or BIO 111, EMT 108, EMT 110, EMT 112, EMT 114
Patient Assessment and Human Systems	EMT 110	F/S			2	Coreq: BIO 100 or BIO 111, EMT 108, EMT 109, EMT 112, EMT 114
Patient Assessment/Pharmacology Laboratory Component	EMT 112	F/S			1	Coreq: BIO 100 or BIO 111, EMT 108, EMT 109, EMT 110, EMT 114
Life Span and Healthcare Issues for Pre-Hospital Care	EMT 114	F/S			4	Coreq: BIO 100 or BIO 111, EMT 108, EMT 109, EMT 110, EMT 112
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Anatomy & Physiology II	BIO 112	F/S/SU			4	BIO 111
Advanced Pre-Hospital Care	EMT 115	F/S			4	EMT 108, EMT 109, EMT 110, EMT 112, EMT 114, Coreq: BIO 100 or BIO 112, EMT 116, EMT 117, EMT 118, EMT 119
Cardiology and Advanced Cardiac Life Support	EMT 116	F/S			4	EMT 108, EMT 109, EMT 110, EMT 112, EMT 114, Coreq: BIO 100 or BIO 112, EMT 115, EMT 117, EMT 118, EMT 119
Trauma	EMT 117	F/S			3	EMT 108, EMT 109, EMT 110, EMT 112, EMT 114, Coreq: BIO 100 or BIO 112, EMT 115, EMT 116, EMT 118, EMT 119
Neonatal and Pediatric Emergencies	EMT 118	F/S			2	EMT 108, EMT 109, EMT 110, EMT 112, EMT 114, Coreq: BIO 100 or BIO 112, EMT 115, EMT 116, EMT 117, EMT 119
Topics In Advanced Life Support	EMT 119	F/S			3	EMT 108, EMT 109, EMT 110, EMT 112, EMT 114, Coreq: BIO 100 or BIO 112, EMT 115, EMT 116, EMT 117, EMT 118
Semester 3						
Clinical Placement for the Paramedic	EMT 202	F/S			7	EMT 115, EMT 116, EMT 117, EMT 118, EMT 119, Coreq: EMT 203
Field Placement for the Paramedic	EMT 203	F/S			5	Coreq: EMT 202
Semester 4						
Composition II	ENG 102	F/S/SU			3	ENG 101
Introduction to Psychology or	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Psychology of Interpersonal Relations	PSY 118					
Semester 5						
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Elective	---	F/S/SU			3	
Liberal Arts Elective	---	F/S/SU			3	
Total Credits Required					**70**	

EMT PARAMEDIC CERTIFICATE (Program Code: PC)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Principles of Human Biology	BIO 100	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Advanced Pre-Hospital Care	EMT 108	F/S			4	Coreq: BIO 100 or BIO 111, EMT 109, EMT 110, EMT 112, EMT 114
Pharmacology for Advanced Pre-Hospital Care	EMT 109	F/S			2	Coreq: BIO 100 or BIO 111, EMT 108, EMT 110, EMT 112, EMT 114
Patient Assessment and Human Systems	EMT 110	F/S			2	Coreq: BIO 100 or BIO 111, EMT 108, EMT 109, EMT 112, EMT 114
Patient Assessment/Pharmacology Laboratory Component	EMT 112	F/S			1	Coreq: BIO 100 or BIO 111, EMT 108, EMT 109, EMT 110, EMT 114
Life Span and Healthcare Issues for Pre-Hospital Care	EMT 114	F/S			4	Coreq: BIO 100 or BIO 111, EMT 108, EMT 109, EMT 110, EMT 112
Semester 2						
Advanced Pre-Hospital Care	EMT 115	F/S			4	EMT 108, EMT 109, EMT 110, EMT 112, EMT 114, Coreq: BIO 100 or BIO 112, EMT 116, EMT 117, EMT 118, EMT 119
Cardiology and Advanced Cardiac Life Support	EMT 116	F/S			4	EMT 108, EMT 109, EMT 110, EMT 112, EMT 114, Coreq: BIO 100 or BIO 112, EMT 115, EMT 117, EMT 118, EMT 119
Trauma	EMT 117	F/S			3	EMT 108, EMT 109, EMT 110, EMT 112, EMT 114, Coreq: BIO 100 or BIO 112, EMT 115, EMT 116, EMT 118, EMT 119,
Neonatal and Pediatric Emergencies	EMT 118	F/S			2	EMT 108, EMT 109, EMT 110, EMT 112, EMT 114, Coreq: BIO 100 or BIO 112, EMT 115, EMT 116, EMT 117, EMT 119,
Topics In Advanced Life Support	EMT 119	F/S			3	EMT 108, EMT 109, EMT 110, EMT 112, EMT 114, Coreq: BIO 100 or BIO 112, EMT 115, EMT 116, EMT 117, EMT 118
Semester 3						
Clinical Placement for the Paramedic	EMT 202	F/S			7	EMT 115, EMT 116, EMT 117, EMT 118, EMT 119, Coreq: EMT 203
Field Placement for the Paramedic	EMT 203	F/S			5	Coreq: EMT 202
Total Credits Required					**45**	

EMERGECY MEDICAL TECHNICIAN CERTIFICATE (Program Code: EMT)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Strategies for College and Career*	ORT 110	F/S/SU			3	Coreq: ENG 090 and ENG 095 or approp place score
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Medical Terminology	ALH 102	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Principles of Human Biology	BIO 100	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Basic Emergency Medical Technology**	EMT 101	F/S/SU			7	
Total Credits Required					**23**	

Program Notes:

- If students complete the Health Certificate, maintain a GPA of 3.0 and meet the admission requirements of a Healthcare program (see page 14) they will be guaranteed admission on a space available basis.

*Students are to take ORT 110 with a Healthcare focus.

**EMT 101 may be taken as a free-standing course, or as part of the entire certificate.

ENGINEERING - Associate in Science (Program Code: ERG)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Principles of Chemistry for Engineers I	CHM 123	F/S/SU			4	Coreq: MAT 233
C++ For Scientists & Engineers	CSC 221	F/S/SU			3	MAT 124, Coreq: MAT 233 recommended
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Engineering Graphics	ERG 101	F/S/SU			3	MAT 124
Calculus I	MAT 233	F/S/SU			4	MAT 124
Semester 2						
Principles of Chemistry for Engineers II	CHM 124	F/S/SU			4	CHM 123
Composition II	ENG 102	F/S/SU			3	ENG 101
Calculus II	MAT 234	F/S/SU			4	MAT 233
General Physics I	PHY 105	F/S/SU			4	MAT 233
Social Science Elective	---	F/S/SU			3	
Semester 3						
Introduction to Materials Science	ERG 211	F/SU			3	CHM 123, PHY 105
Statics	ERG 221	F/IN			3	Coreq: MAT 235, PHY 106
Calculus III	MAT 235	F/S			4	MAT 234
Probability & Statistics for Engineers and Scientists	MAT 237	F/S/SU			3	MAT 234
General Physics II	PHY 106	F/S/SU			4	MAT 234, PHY 105
Semester 4						
Thermodynamics	ERG 223	S/SU			3	CHM 124, MAT 235, PHY 106
Strength of Materials	ERG 225	S/SU			3	ERG 221, MAT 235, Coreq: MAT 238
Differential Equations	MAT 238	F/S/SU			3	MAT 235
Linear Algebra	MAT 243	F/S/SU			3	Coreq: MAT 238
General Physics III	PHY 205	F/S/SU			4	MAT 235, PHY 106, Coreq: MAT 238
Total Credits Required					**68**	

Program Notes:

- Students should note that some required courses carry a minimum corequisite of MAT 233.
- WPI awards no transfer credit for any online course work. Students are advised to consult with their transfer institution(s) of choice for similar policies.

ENGINEERING - BIOMEDICAL ENGINEERING OPTION - Associate in Science (Program Code: ERBM)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Principles of Biology I*	BIO 107	F/S/SU			4	MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score, Coreq: ENG 101
Principles of Chemistry for Engineers I	CHM 123	F/S/SU			4	Coreq: MAT 233
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Calculus I	MAT 233	F/S/SU			4	MAT 124
Social Science Elective	---	F/S/SU			3	
Semester 2						
Cell Biology	BIO 259	F/S			4	BIO 107
Principles of Chemistry for Engineers II	CHM 124	F/S/SU			4	CHM 123
Composition II	ENG 102	F/S/SU			3	ENG 101
Calculus II	MAT 234	F/S/SU			4	MAT 233
General Physics I	PHY 105	F/S/SU			4	MAT 233
Semester 3 (Summer)						
Probability & Statistics for Engineers and Scientists	MAT 237	F/S/SU			3	MAT 234
General Physics II	PHY 106	F/S/SU			4	MAT 234, PHY 105
Semester 4						
Molecular Biology	BIO 260	F/S			4	BIO 107
Introduction to Materials Science	ERG 211	F/SU			3	CHM 123, PHY 105
Statics	ERG 221	F/IN			3	Coreq: MAT 235, PHY 106
Calculus III	MAT 235	F/S			4	MAT 234
Semester 5						
Thermodynamics	ERG 223	S/SU			3	CHM 124, MAT 235, PHY 106
Strength of Materials	ERG 225	S/SU			3	ERG 221, MAT 235, Coreq: MAT 238
Differential Equations	MAT 238	F/S/SU			3	MAT 235
Linear Algebra	MAT 243	F/S/SU			3	Coreq: MAT 238
General Physics III	PHY 205	F/S/SU			4	MAT 235, PHY 106, Coreq: MAT 238
Total Credits Required					**74**	

Program Notes:

- Students should note that some required courses carry a minimum prerequisite of MAT 124 or higher.
- WPI awards no transfer credit for any online course work. Students are advised to consult with their transfer institution(s) of choice for similar policies.

*Students who have successfully completed BIO 101 prior to Fall 2012 can substitute this course for BIO 107.

ENERGY UTILITY TECHNOLOGY CERTIFICATE (Program Code: EUTC)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Fundamentals of the Energy Industry	EUT 101	F			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Applied Technical Mathematics I*	MAT 108	F/S			4	MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Electrical Principles I	EUT 110	F			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score, Coreq: EUT 101
Semester 2						
Electrical Principles II	EUT 111	S			4	EUT 110
Generation, Transmission and Distribution	EUT 115	S			4	EUT 110
Industrial Safety	EUT 120	S			3	EUT 101
Energy Utility Technology Practicum	EUT 190	S			3	Coreq: EUT 111, EUT 115, EUT 120
Total Credits Required					**29**	

Program Notes:

- Students are advised to enroll in all Semester 1 courses in the fall semester in order to progress to Semester 2. Students should enroll in all Semester 2 courses in order to complete the program in one academic year.
- Individuals seeking employment with utility companies must also meet employer-specific hiring requirements. Individuals with driving and/or legal infractions should be aware that their actions may impact their employability.

*MAT 108 is designed to teach students how to apply mathematics to specific technical disciplines and is offered for credit toward the certificate or degree to be earned in Energy Utility Technology. It may not be considered equivalent to college level mathematics for the purpose of transfer of credit to some baccalaureate institutions.

FIRE SCIENCE - Associate in Science (Program Code: FS)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Mathematics Elective*	---	F/S/SU			3	
Principles of Emergency Services	FSC 101	F/S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Basic Emergency Medical Technology**	EMT 101	F/S/SU			7	
Semester 2						
Composition II	ENG 102	F/S/SU			3	ENG 101
Introduction to Microcomputer Applications or	CIS 111	F/S/SU			3	
Advanced Microcomputer Applications	CIS 112					CIS 111
Fire Behavior and Combustion	FSC 104	F/S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, FSC 101
Building Construction for Fire Protection	FSC 121	F/S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, FSC 101
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 3						
Lab Science Elective***	---	F/S/SU			4	
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Principles of Fire and Emergency Services Safety and Survival	FSC 201	F/S			3	FSC 104, FSC 121
Fire Prevention	FSC 203	F/S			3	FSC 104, FSC 121, ENG 101
Fire Science Elective	---	F/S/SU			3	
Semester 4						
Lab Science Elective***	---	F/S/SU			4	
Introductory Sociology (Principles) or	SOC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Social Problems & Social Change	SOC 111					Coreq: ENG 101
Fire Protection Systems	FSC 223	F/S			3	FSC 203
Introduction to Fire and Emergency Services Administration	FSC 263	F/S			3	FSC 203, SPH 101
Fire Science Elective	---	F/S/SU			3	
Total Credits Required					**63**	

Program Notes:
*MAT 100, MAT 121, MAT 122, or higher; MAT 122 recommended.
**Credit for EMT 101 may be earned through credentialing for students with current EMT Basic, EMT I or EMT Paramedic certification or take two Fire Science Electives.
***Recommend taking BIO 101 and BIO 111 as Lab Science Electives if students are considering becoming a paramedic. See Paramedic Technology Program for admission requirements and program details.

FIRE SCIENCE CERTIFICATE (Program Code: FSC)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Principles of Emergency Services	FSC 101	F/S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Occupational Safety and Health for Emergency Services	FSC 151	F/S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Basic Emergency Medical Technology	EMT 101	F/S/SU			7	
Semester 2						
Building Construction for Fire Protection	FSC 121	F/S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, FSC 101
Fire Behavior and Combustion	FSC 104	F/S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, FSC 101
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Total Credits Required					**25**	

GENERAL STUDIES - Associate in Arts (Program Code: GS)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Behavioral Science Elective	---	F/S/SU			3	
College Algebra or	MAT 100	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Topics in Mathematics or	MAT 121					
Statistics	MAT 122					
Strategies for College and Career or	ORT 110	F/S/SU			3	Coreq: ENG 090 and ENG 095 or approp place score
Self-Assessment and Career Planning	PSY 115					ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Critical Thinking and Problem Solving	HUM 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Composition II	ENG 102	F/S/SU			3	ENG 101
History Elective	---	F/S/SU			3	
Program Elective	---	F/S/SU			3	
Program Elective*	---	F/S/SU			3	
Elective	---	F/S/SU			3	
Semester 3						
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Program Elective	---	F/S/SU			3	
Humanities Elective	---	F/S/SU			3	
Lab Science Elective	---	F/S/SU			4	
Social Science Elective	---	F/S/SU			3	
Semester 4						
Humanities Elective**	---	F/S/SU			3	
Lab Science Elective	---	F/S/SU			4	
Social Science Elective	---	F/S/SU			3	
Program Elective	---	F/S/SU			3	
Elective**	---	F/S/SU			3	
Total Credits Required					**62**	

Program Notes:

- Student must complete ORT 110 or PSY 115 prior to the completion of 20 credits in order to register for additional courses in the General Studies Program. Courses that meet developmental, core, or general education requirements are not Career Electives.
- Career Electives: Courses with the objective of preparing students for a specific occupation or semester of occupations or courses that have been recommended based upon the student's Academic and Career Plan.

*Suggested course designations include: CIS, CSC and APA.
**Must be a 200-level course.

GENERAL STUDIES - BIOTECHNOLOGY OPTION - Associate in Arts (Program Code: GSBT)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1 (Fall)						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Principles of Biology I*	BIO 107	F/S/SU			4	MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score, Coreq: ENG 101
Introduction to Biotechnology	BTT 101	F/S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
General Chemistry I	CHM 105	F/S/SU			4	CHM 090 or one year of High School Chemistry, MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Critical Thinking and Problem Solving	HUM 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2 (Spring)						
Composition II	ENG 102	F/S/SU			3	ENG 101
Cell Biology	BIO 259	F/S			4	BIO 107
Behavioral Science Elective	---	F/S/SU			3	
General Chemistry II	CHM 106	F/S/SU			4	CHM 105
College Mathematics I: Pre-Calculus	MAT 123	F/S/SU			3	MAT 100 or approp place score
Semester 3 (Summer I or Summer II)						
Statistics	MAT 122	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
History Elective	---	F/S/SU			3	
Semester 4 (Fall)						
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
General Microbiology	BIO 231	F/S			4	BIO 107
Science Elective**	---	F/S/SU			4	
Social Science Elective	---	F/S/SU			3	
Semester 5 (Spring)						
Humanities Elective	---	F/S/SU			3	
Social Science Elective	---	F/S/SU			3	
Mathematics Elective or Science Elective	---	F/S/SU			3-4	
Mathematics Elective or Science Elective***	---	F/S/SU			3-6	
Total Credits Required					**66-70**	

Program Notes:
*Students who have successfully completed BIO 101 prior to Fall 2012 can substitute this course for BIO 107.
**BIO 260 recommended for students seeking employment after graduation.
***BTT 201 (summer only) recommended for students seeking employment after graduation.

GENERAL STUDIES - DEAF STUDIES OPTION - Associate in Arts (Program Code: GSDS)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Beginning American Sign Language I	ASL 111	F/S/SU			3	
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Critical Thinking and Problem Solving	HUM 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introductory Sociology (Principles)	SOC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Beginning American Sign Language II	ASL 112	F/S/SU			3	ASL 111
Introduction to Deaf Studies	ASL 113	S			3	ASL 111
Composition II	ENG 102	F/S/SU			3	ENG 101
Topics in Mathematics* or Statistics*	MAT 121 MAT 122	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
American Deaf Culture	SOC 220	F			3	SOC 101
Semester 3						
Deaf Community Practicum	ASL 200	F/S			3	ASL 112, ASL 113, CORI/SORI Check
Intermediate American Sign Language I	ASL 211	S			3	ASL 112
Introduction to the Field of Interpreting	ASL 215	S			3	ASL 113, ASL 211
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Lab Science Elective**	---	F/S/SU			4	
Semester 4						
Intermediate American Sign Language II	ASL 212	S			3	ASL 211
Social Problems & Social Change	SOC 111	F/S/SU			3	Coreq: ENG 101
History Elective	---	F/S/SU			3	
Social Science Elective	---	F/S/SU			3	
Science Elective	---	F/S/SU			4	
Total Credits Required					**62**	

Program Notes:

- CORI/SORI checks are required of all students taking a practicum.

*Regarding mathematics requirements, students are advised to consult the requirements of the college to which they plan to transfer.

**SCI 108 recommended.

GENERAL STUDIES - ELEMENTARY EDUCATION TRANSFER OPTION - Associate in Arts (Program Code: GSEE)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Mathematics for Educators I	MAT 111	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Liberal Arts Elective*	---	F/S/SU			3	
Semester 2						
Composition II	ENG 102	F/S/SU			3	ENG 101
Mathematics for Educators II	MAT 112	F/S			3	MAT 111
Human Development I: Conception to Adolescence	PSY 123	F/S			3	PSY 101
Elementary Education: Teaching and Learning	EDU 101	F/S			3	ENG 096 with a grade of "C" or higher; or approp place score
History Elective**	---	F/S/SU			3	
Semester 3						
Integrated Science: Earth and Space	SCI 105	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Children's Literature	ENG 200	F/S/SU			3	ENG 102
Integrating Theory and Practice: The Elementary School Learner	EDU 102	F/S			3	ENG 096 with a grade of "C" or higher; or approp place score
Liberal Arts Elective*	---	F/S/SU			3	
Liberal Arts Elective*	---	F/S/SU			3	
Semester 4						
Foundations of Reading	EDU 200	F/S			3	EDU 101
Integrated Science: The Living World	SCI 106	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Liberal Arts Elective*	---	F/S/SU			3	
Humanities Elective***	---	F/S/SU			3	
Curriculum and Instruction in the Elementary School	EDU 201	F/S			3	EDU 101
Total Credits Required					**62**	

Program Notes:

- CORI/SORI checks are required of all students taking EDU classes.
- It is highly recommended that students take the CLST portion of the MTEL (Massachusetts Tests for Educator Licensure) after completing ENG 102.

*Students are advised to consult the requirements of the college to which they plan to transfer. Graduates of the Elementary Education Option are required to have an academic major in the Liberal Arts. Since the requirements of each major at each institution will vary, students need to intentionally select the Liberal Arts Electives to maximize student transfer of credits.

**History Electives are designated as: HST 104, HST 105, HST 106, HST 115, or HST 116.

***Humanities course designations include: ART, ENG, FRC, GER, HUM, MUS, PHI, SPH, and SPN.

GENERAL STUDIES - ENERGY UTILITY TECHNOLOGY OPTION - Associate in Arts (Program Code: GSET)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Electrical Principles I*	EUT 110	F			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score, Coreq: EUT 101
Fundamentals of the Energy Industry*	EUT 101	F			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Applied Technical Mathematics I*[1]	MAT 108	F/S			4	MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Introduction to Microcomputer Applications*	CIS 111	F/S/SU			3	
Semester 2						
Composition II	ENG 102	F/S/SU			3	ENG 101
Electrical Principles II*	EUT 111	S			4	EUT 110
Generation, Transmission and Distribution*	EUT 115	S			4	EUT 110
Industrial Safety*	EUT 120	S			3	EUT 101
Energy Utility Technology Practicum*	EUT 190	S			3	Coreq: EUT 111, EUT 115, EUT 120
Semester 3						
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Critical Thinking and Problem Solving	HUM 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Liberal Arts Elective**	---	F/S/SU			3	
Lab Science Elective	---	F/S/SU			4	
Social Science Elective	---	F/S/SU			3	
Semester 4						
Humanities Elective***	---	F/S/SU			3	
Lab Science Elective	---	F/S/SU			4	
Social Science Elective****	---	F/S/SU			3	
History Elective	---	F/S/SU			3	
Total Credits Required					**64**	

Program Notes:

- Individuals seeking employment with utility companies must also meet employer-specific hiring requirements. Individuals with driving and/or legal infractions should be aware that their actions may impact their employability.

[1]Does not meet the requirements of Mass*Transfer*.

*These courses are included in the Energy Utility Technology Certificate.

**MAT 121 or higher is recommended for students intending to meet the requirements of Mass*Transfer* to transfer to a four-year institution.

***Must be a 200-level course.

****SOC 111 is recommended.

GENERAL STUDIES - HEALTHCARE OPTION - Associate in Arts (Program Code: GSHC)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
General Biology: Core Concepts*	BIO 101	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Self-Assessment and Career Planning** or	PSY 115	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Strategies for College and Career	ORT 110					Coreq: ENG 090 and ENG 095 or approp place score
Critical Thinking and Problem Solving	HUM 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Composition II	ENG 102	F/S/SU			3	ENG 101
Statistics	MAT 122	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Introduction to Medical Terminology	ALH 102	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Pharmacology for Allied Health Professionals	ALH 103	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Anatomy & Physiology I	BIO 111	F/S/SU			4	BIO 101 or High School Advanced Placement Biology, Coreq: ENG 101
Semester 3						
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Technical and Workplace Writing	ENG 205	F/S/SU			3	ENG 102, Computer Literacy
Valuing Diversity	IDS 101	F/S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Anatomy & Physiology II	BIO 112	F/S/SU			4	BIO 111
Introductory Sociology (Principles) or	SOC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Social Problems & Social Change	SOC 111					Coreq: ENG 101
Semester 4						
Humanities Elective***	---	F/S/SU			3	
History Elective	---	F/S/SU			3	
Elective****	---	F/S/SU			3	
Bioethics	IDS 215	S			3	Coreq: ENG 101
Pathophysiology	BIO 221	S			3	BIO 112
Total Credits Required					**63**	

Program Notes:

- Students must complete ORT 110 or PSY 115 prior to the completion of 20 credits in order to register for additional courses in the General Studies Healthcare Option.

*If BIO 101 is not needed (if prerequisite for BIO 111 is met some other way), then student should either select CHM 101 if Dental Hygiene is the goal or BIO 232 if Nursing or Respiratory Care is the goal.
**PSY 115 is recommended for students placing into ENG 101; ORT 110 is recommended for students placing into ENG 090, ENG 091, ENG 095, or ENG 096.
***Must be a 200-level course.
****CHC 150, CHC 151, CHC 250, CIS 111, BIO 241, PHA 101, or PHA 102.

GENERAL STUDIES - PRE-PHARMACY OPTION - Associate in Arts (Program Code: GSPH)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1 (Fall)						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Principles of Biology I	BIO 107	F/S/SU			4	MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score, Coreq: ENG 101
Statistics	MAT 122	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
General Chemistry I	CHM 105	F/S/SU			4	CHM 090 or one year of High School Chemistry, MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2 (Spring)						
Composition II	ENG 102	F/S/SU			3	ENG 101
Principles of Biology II	BIO 108	F/S/SU			4	BIO 101 or BIO 107
College Mathematics II: Trigonometry	MAT 124	F/S/SU			3	MAT 123 or approp place score
General Chemistry II	CHM 106	F/S/SU			4	CHM 105
Introductory Sociology (Principles)	SOC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 3 (Summer)						
Elective*	---	F/S/SU			3-4	
Elective*	---	F/S/SU			3-4	
Economics Elective*	---	F/S/SU			3	
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 4 (Fall)						
Organic Chemistry I	CHM 201	F/S/SU			4	CHM 106 or CHM 124
General Microbiology or	BIO 231	F/S			4	BIO 107
Medical Microbiology	BIO 232	F/S/SU				BIO 112 or CHM 123 or CHM 105
Calculus I	MAT 233	F/S/SU			4	MAT 124
History Elective* or	---	F/S/SU			3	
Political Science Elective*	---					
Semester 5 (Spring)						
Organic Chemistry II	CHM 202	F/S/SU			4	CHM 201
General Physics I	PHY 105	F/S/SU			4	MAT 233
Humanities Elective*	---	F/S/SU			3	
Elective**	---	F/S/SU			3	
Total Credits Required					**75-77**	

Program Notes:
*Students are advised to consult the requirements of the college to which they plan to transfer.
**Must be in the Humanities to meet Mass*Transfer*.

NURSING ASSISTANT CERTIFICATE (Program Code: NA)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Strategies for College and Career*	ORT 110	F/S/SU			3	Coreq: ENG 090 and ENG 095 or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Medical Terminology	ALH 102	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Principles of Human Biology	BIO 100	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introductory Nursing Assistant	ALH 131	F/S/SU			5	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Advanced Nursing Assistant	ALH 132	F/S/SU			2	Certificate of Completion from a state-approved nursing assistant training program or current C.N.A. certificate, ALH 131
Total Credits Required					**23**	

Program Notes:

- If students complete the Health Certificate, maintain a GPA of 3.0, and meet the admission requirements of a Healthcare program (see Programs of Study listing), they will be guaranteed admission on a space available basis.
- ALH 131 and ALH 132 restricted to Nursing Assistant Certificate students only.

*Students are to take ORT 110 with a Healthcare focus.

PHARMACY TECHNICIAN CERTIFICATE (Program Code: PT)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Strategies for College and Career*	ORT 110	F/S/SU			3	Coreq: ENG 090 and ENG 095 or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Medical Terminology	ALH 102	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Principles of Human Biology	BIO 100	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Pharmacy Technician	ALH 137	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Pharmacy Technician Clinical Co-Operative Externship	ALH 138	S/SU			6	ALH 137
Total Credits Required					**25**	

Program Notes:

- If students complete the Health Certificate, maintain a GPA of 3.0, and meet the admission requirements of a Healthcare program (see Programs of Study listing) they will be guaranteed admission on a space available basis.
- ALH 137 and ALH 138 restricted to Pharmacy Technician Certificate students only.

*Students are to take ORT 110 with a Healthcare focus.

PHLEBOTOMY/EKG TECHNICIAN CERTIFICATE (Program Code: PEKG)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Strategies for College and Career*	ORT 110	F/S/SU			3	Coreq: ENG 090 and ENG 095 or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Medical Terminology	ALH 102	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Principles of Human Biology	BIO 100	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Phlebotomy/EKG Technician	ALH 134	F/S			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Phlebotomy/EKG Technician Clinical Co-Operative Externship	ALH 136	F/S			6	Coreq: ALH 134
Total Credits Required					**25**	

Program Notes:

- If students complete the Health Certificate, maintain a GPA of 3.0, and meet the admission requirements of a Healthcare program (see Programs of Study listing), they will be guaranteed admission on a space available basis.
- ALH 134 and ALH 136 restricted to Phlebotomy/EKG Technician Certificate students only.

*Students are to take ORT 110 with a Healthcare focus.

HOSPITALITY AND RECREATION MANAGEMENT - FOODSERVICE MANAGEMENT OPTION - Associate in Science (Program Code: HRFO)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Hotel/Restaurant Management	HRM 101	F/S			3	
Basic Foods: Basic Boucher & Patissier	HRM 111	F			4	Coreq: HRM 115
Sanitation Certification	HRM 115	F			1	
Hospitality Law and Ethics	HRM 121	F/S			3	
Introduction to Microcomputer Applications or	CIS 111	F/S/SU			3	
Business Elective	---					
Semester 2						
Composition II	ENG 102	F/S/SU			3	ENG 101
Basic Foods: Garde-Manager & Saucier	HRM 112	S			4	Coreq: HRM 115
Food and Beverage Cost Control	HRM 131	S			3	
Dining Room and Banquet Management	HRM 218	S			3	
Hotel/Restaurant Management Elective	---	F/S/SU			3	
Semester 3						
Nutrition for Foodservice Management	HRM 216	F			3	Coreq: HRM 111 or HRM 112
Psychology of Interpersonal Relations or	PSY 118	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Human Relations in Organizations	PSY 158					
Liberal Arts Elective	---	F/S/SU			3	
Mathematics Elective or Science Elective*	---	F/S/SU			3-4	
Multiple Perspectives Elective	---	F/S/SU			3	
Semester 4						
Financial Accounting I	ACC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Hotel/Restaurant Management Cooperative Education Experience	HRM 299	F/S/SU			3-6	Approval of Program Coordinator
Business Elective	---	F/S/SU			3	
Hotel/Restaurant Management Elective	---	F/S/SU			3	
Liberal Arts Elective	---	F/S/SU			3	
Total Credits Required					**63-67**	

Program Notes:

- Students not meeting admissions requirements are encouraged to enroll in the Foodservice Management Certificate program. All courses in the certificate program apply to the Associate Degree. CIS 111 may be used as a Business Elective.
- CORI/SORI checks are required of all students accepted into the program.

*100-level or higher.

HOSPITALITY AND RECREATION MANAGEMENT - HOSPITALITY MANAGEMENT OPTION - Associate in Science (Program Code: HRHO)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Hotel/Restaurant Management	HRM 101	F/S			3	
Hospitality Law and Ethics	HRM 121	F/S			3	
Front Office Operations	HRM 135	F			3	
Introduction to Microcomputer Applications or	CIS 111	F/S/SU			3	
Business Elective	---					
Semester 2						
Composition II	ENG 102	F/S/SU			3	ENG 101
Front Office Management	HRM 136	S			3	
Bar and Beverage Management	HRM 139	S			3	
Management in the Hospitality Industry	HRM 235	S			3	
Hotel/Restaurant Management Elective	---	F/S/SU			3	
Semester 3						
Hotel Meetings: Sales and Operations	HRM 232	F			3	
Destination Marketing and Management	HRM 236	F			3	
Psychology of Interpersonal Relations or	PSY 118	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Human Relations in Organizations	PSY 158					
Mathematics Elective or Science Elective	---	F/S/SU			3-4	
Multiple Perspectives Elective	---	F/S/SU			3	
Semester 4						
Financial Accounting I	ACC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Hotel/Restaurant Management Cooperative Education Experience	HRM 299	F/S/SU			3-6	Approval of Program Coordinator
Business Elective	---	F/S/SU			3	
Hotel/Restaurant Management Elective	---	F/S/SU			3	
Liberal Arts Elective	---	F/S/SU			3	
Liberal Arts Elective	---	F/S/SU			3	
Total Credits Required					**63-67**	

Program Notes:

- Students not meeting admissions requirements are encouraged to enroll in the Hospitality Management Certificate program. All courses in the certificate program apply to the Associate Degree. CIS 111 may be used as a Business Elective.
- CORI/SORI checks are required of all students accepted into the program.

HOSPITALITY MANAGEMENT CERTIFICATE (Program Code: HO)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Financial Accounting I	ACC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Introduction to Microcomputer Applications or	CIS 111	F/S/SU			3	
Business Elective	---					
Hospitality Law and Ethics	HRM 121	F/S			3	
English Elective	---	F/S/SU			3	
Semester 2						
Front Office Management	HRM 136	S			3	
Management in the Hospitality Industry	HRM 235	S			3	
Hotel/Restaurant Management Cooperative Education Experience	HRM 299	F/S/SU			3-6	Approval of Program Coordinator
Business Elective	---	F/S/SU			3	
Psychology of Interpersonal Relations or	PSY 118	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Human Relations in Organizations	PSY 158					
Total Credits Required					**27-30**	
Program Notes: • CORI/SORI checks are required of all students accepted into the program.						

HUMAN SERVICES - Associate in Science (Program Code: HA)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Human Services	HUS 101	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
The Helping Relationship: Delivering Human Services	HUS 121	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introductory Sociology (Principles)	SOC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Composition II	ENG 102	F/S/SU			3	ENG 101
Introduction to Aging	GRT 101	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Group Process for Human Services	HUS 125	F/S/SU			3	HUS 101, HUS 121
Community Service: Delivering Human Services	HUS 141	F/S/SU			3	ENG 101, HUS 101, HUS 121
Introduction to Counseling	PSY 231	F/S/SU			3	PSY 101
Semester 3						
Cultural Competence for Human Service Workers	HUS 221	F/S/SU			3	ENG 101, HUS 101, SOC 101
Legal and Ethical Concepts in Human Services	HUS 231	F/S			3	HUS 101, HUS 121, HUS 141
Chemical Dependency	PSY 273	F/S/SU			3	PSY 101
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Human Services Practicum I	HUS 243	F			4	HUS 101, HUS 141, PSY 231
Semester 4						
Human Services Practicum II	HUS 244	S			4	HUS 243
Elective	---	F/S/SU			3	
Elective	---	F/S/SU			3	
Liberal Arts Elective	---	F/S/SU			3	
Mathematics Elective or Science Elective	---	F/S/SU			3-4	
Total Credits Required					**62-63**	

HUMAN SERVICES CERTIFICATE (Program Code: HS)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
***Introduction to English Composition**	**ENG 100**	**F/S/SU**			**3**	**A grade of "C" or higher in ENG 091 and passing the ENG 096 departmental writing final examination essay or approp place score**
Introductory Sociology (Principles)	SOC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Human Services	HUS 101	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
The Helping Relationship: Delivering Human Services	HUS 121	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Semester 3						
Group Process for Human Services	HUS 125	F/S/SU			3	HUS 101, HUS 121
Community Service: Delivering Human Services	HUS 141	F/S/SU			3	ENG 101, HUS 101, HUS 121
Introduction to Counseling	PSY 231	F/S/SU			3	PSY 101
Elective	---	F/S/SU			3	
Total Credits Required					**30**	

*The Human Services Department will prepare a separate proposal to remove ENG 100 from the grid

DIRECT SUPPORT CERTIFICATE (Program Code: DSC)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Human Services	HUS 101	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
The Helping Relationship: Delivering Human Services	HUS 121	F/S/SU			3	ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Developmental Disabilities	HUS 131	F/S			3	HUS 101, Coreq: ENG 101
Direct Support Practicum	HUS 143	F/S			3	HUS 101
Special Topics in Developmental Disabilities	HUS 145	S			3	HUS 101, HUS 131
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Total Credits Required					**21**	

Program Notes:

- Must obtain First Aid and CPR by completion of Certificate.

LIBERAL ARTS - Associate in Arts (Program Code: LA)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Mathematics Elective	---	F/S/SU			3	
Introduction to Liberal Arts	LIB 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Composition II	ENG 102	F/S/SU			3	ENG 101
Mathematics Elective	---	F/S/SU			3	
Sociology Elective	---	F/S/SU			3	
History Elective	---	F/S/SU			3	
Multiple Perspectives Elective*	---	F/S/SU			3	
Semester 3						
Foreign Language Elective**	---	F/S/SU			3	
Lab Science Elective	---	F/S/SU			4	
Humanities Elective***	---	F/S/SU			3	
Liberal Arts Elective****	---	F/S/SU			3	
Elective	---	F/S/SU			3	
Semester 4						
Foreign Language Elective**	---	F/S/SU			3	
Lab Science Elective	---	F/S/SU			4	
Liberal Arts Elective****	---	F/S/SU			3	
Liberal Arts Elective****	---	F/S/SU			3	
Elective	---	F/S/SU			3	
Total Credits Required					**62**	

Program Notes:

*Suggested courses include: ANT 111 or ANT 221; ART 260; ASL 113; BIO 141; CHC 151, CHC 250, or CHC 255; ECE 133; ENG 231 or ENG 232; GEO 210; GRT 101; HST 104, HST 105, HST 106, HST 133, HST 152, HST 157, HST 203, HST 204, HST 215, HST 216, or HST 241; HUM 147 or HUM 211; HUS 221; IDS 101 or IDS 141; MUS 121; PHI 121, PHI 123, or PHI 201; PSY 142, PSY 241, or PSY 242; SOC 111, SOC 115, SOC 211, or SOC 220.

**Foreign Language credits may be earned in one of the following: Completion of six college level credits in one foreign language; Successful completion of Advanced Placement Exam, CLEP, or Challenge Exam; Two years of sequential high school instruction in one foreign language with a grade of "C" or higher; Course work on high school transcript from a non-English speaking country where the primary language of instruction is not English. Note: If the student satisfies the Foreign Language credits through high school instruction, then the student must earn either three credits in a Humanities Elective and three credits in a Liberal Arts Elective in order to meet Mass*Transfer* requirements, or six credits in Liberal Arts Electives to fulfill program requirements but without meeting Mass*Transfer* requirements.

***Humanities course designations include: ART, ASL, ENG, FRC, GER, HUM, MUS, PHI, SPH, and SPN.

****A Liberal Arts Elective is any Humanities, Social Science, Behavioral Science, Natural Science, or Mathematics course (must be a 200-level course).

LIBERAL ARTS - MUSIC OPTION - Associate in Arts (Program Code)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Mathematics Elective	---	F/S/SU			3	
Music Theory I *(New Course: Fall 2016)*	MUS 151	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Liberal Arts	LIB 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Composition II	ENG 102	F/S/SU			3	ENG 101
Mathematics Elective	---	F/S/SU			3	
Music Theory II *(New Course: Spring 2017)*	MUS 152	F/S/SU			4	MUS 151
Music Ensemble I *(New Course: Spring 2017)*	MUS 131	F/S			1	MUS 151
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 3						
Music History I *(New Course: Fall 2017)*	MUS 261	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Music Ensemble II *(New Course: Fall 2017)*	MUS 132	F/S			1	MUS 131
Foreign Language Elective*	---	F/S/SU			3	
Lab Science Elective	---	F/S/SU			4	
Sociology Elective	---	F/S/SU			3	
History Elective	---	F/S/SU			3	
Semester 4						
Music History II *(New Course: Spring 2018)*	MUS 262	F/S/SU			3	MUS 261
Music Ensemble III *(New Course: Spring 2018)*	MUS 133	F/S			1	MUS 132
Foreign Language Elective*	---	F/S/SU			3	
Lab Science Elective	---	F/S/SU			4	
Multiple Perspectives Elective**	---	F/S/SU			3	
Elective	---	F/S/SU			3	
Total Credits Required					**64**	

Program Notes:

*Foreign Language credits may be earned in one of the following: Completion of six college level credits in one foreign language; Successful completion of Advanced Placement Exam, CLEP, or Challenge Exam; Two years of sequential high school instruction in one foreign language with a grade of "C" or higher; Course work on high school transcript from a non-English speaking country where the primary language of instruction is not English. Note: If the student satisfies the Foreign Language credits through high school instruction, then the student must earn either three credits in a Humanities Elective and three credits in a Liberal Arts Elective in order to meet Mass*Transfer* requirements, or six credits in Liberal Arts Electives to fulfill program requirements but without meeting Mass*Transfer* requirements.

**Suggested courses include: ANT 111 or ANT 221; ART 260; ASL 113; BIO 141; CHC 151, CHC 250, or CHC 255; ECE 133; ENG 231 or ENG 232; GEO 210; GRT 101; HST 104, HST 105, HST 106, HST 133, HST 152, HST 157, HST 203, HST 204, HST 215, HST 216, or HST 241; HUM 147 or HUM 211; HUS 221; IDS 101 or IDS 141; MUS 121; PHI 121, PHI 123, or PHI 201; PSY 142, PSY 241, or PSY 242; SOC 111, SOC 115, SOC 211, or SOC 220.

LIBERAL ARTS - THEATER OPTION - Associate in Arts (Program Code)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Mathematics Elective	---	F/S/SU			3	
Introduction to Liberal Arts	LIB 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Theater Production *(New Course: Fall 2016)*	THA 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Composition II	ENG 102	F/S/SU			3	ENG 101
Mathematics Elective	---	F/S/SU			3	
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Stage Movement *(New Course: Spring 2017)*	THA 102	F/S/SU			3	THA 101
Stage Voice *(New Course: Spring 2017)*	THA 103	F/S/SU			3	THA 101
Semester 3						
Foreign Language Elective*	---	F/S/SU			3	
Lab Science Elective	---	F/S/SU			4	
Acting *(New Course: Fall 2017)*	THA 201	F/S/SU			3	THA 102, THA 103
Stage Management *(New Course: Fall 2017)*	THA 202	F/S/SU			3	THA 102, THA 103
Sociology Elective	---	F/S/SU			3	
Semester 4						
Foreign Language Elective*	---	F/S/SU			3	
Lab Science Elective	---	F/S/SU			4	
Playwriting *(New Course: Spring 2018)*	THA 203	F/S/SU			3	ENG 101, THA 201, THA 202
History Elective	---	F/S/SU			3	
Multiple Perspectives Elective**	---	F/S/SU			3	
Total Credits Required					**62**	

Program Notes:

*Foreign Language credits may be earned in one of the following: Completion of six college level credits in one foreign language; Successful completion of Advanced Placement Exam, CLEP, or Challenge Exam; Two years of sequential high school instruction in one foreign language with a grade of "C" or higher; Course work on high school transcript from a non-English speaking country where the primary language of instruction is not English. Note: If the student satisfies the Foreign Language credits through high school instruction, then the student must earn either three credits in a Humanities Elective and three credits in a Liberal Arts Elective in order to meet Mass*Transfer* requirements, or six credits in Liberal Arts Electives to fulfill program requirements but without meeting Mass*Transfer* requirements.

**Suggested courses include: ANT 111 or ANT 221; ART 260; ASL 113; BIO 141; CHC 151, CHC 250, or CHC 255; ECE 133; ENG 231 or ENG 232; GEO 210; GRT 101; HST 104, HST 105, HST 106, HST 133, HST 152, HST 157, HST 203, HST 204, HST 215, HST 216, or HST 241; HUM 147 or HUM 211; HUS 221; IDS 101 or IDS 141; MUS 121; PHI 121, PHI 123, or PHI 201; PSY 142, PSY 241, or PSY 242; SOC 111, SOC 115, SOC 211, or SOC 220.

MANUFACTURING TECHNOLOGY - Associate in Science (Program Code: MP)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
College Mathematics I: Pre-Calculus	MAT 123	F/S/SU			3	MAT 100 or approp place score
Mechanical CAD I	MNT 101	F/S			3	
Manufacturing Processes I	MNT 110	F			3	
Manufacturing Safety	MNT 100	F			3	
Semester 2						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
College Mathematics II: Trigonometry	MAT 124	F/S/SU			3	MAT 123 or approp place score
Manufacturing Quality Assurance & Control Techniques	MNT 106	S			4	
Liberal Arts Elective	---	F/S/SU			3	
Maintenance and Instrumentation in Manufacturing	MNT 115	S			3	
Semester 3						
Composition II	ENG 102	F/S/SU			3	ENG 101
Solid Modeling	MNT 103	F/S			3	MNT 101
Process Automation & Robotics	MNT 217	F			3	CIS 111, Coreq: MNT 115
Physics I	PHY 101	F			4	Coreq: MAT 124
Computer Numerical Control or	MNT 210	F			3-4	MNT 101
Elective*	---	F/S/SU				
Semester 4						
Fundamentals of Computer-Aided Manufacturing	MNT 215	S			4	MNT 102 or MNT 103, MNT 210
Manufacturing Processes II	MNT 216	S			4	MNT 102 or MNT 103, MNT 210
Lean Manufacturing and Six Sigma	MNT 218	S			3	MNT 106
Cooperative Work Experience & Seminar** or	MNT 299	F/S/SU			3	Approval of Program Coordinator
Elective*	---					
Physics II	PHY 102	S			4	PHY 101
Total Credits Required					**65-66**	

Program Notes:

- Students should note that many required courses have ENG and/or MAT prerequisites.

*Suggested Electives: Students must select from the following list of subject areas: BIO, CHM, MAT, MNT, PHY, PSY, or SPH; or the following suggested courses: MGT 211, MGT 221, MRK 201, or MRK 221; or a course approved by the Program Coordinator.

**It is recommended that students register for MNT 299 in their final semester to gain vital work experience prior to program completion.

MANUFACTURING TECHNOLOGY - APPLIED MANUFACTURING OPTION - Associate in Science (Program Code: MPA)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Credentialing of MassMEP CNC Machine Operator Skills Training & Advanced CNC Machine Operator Skills Training as per articulation agreement					26	
Semester 1						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Process Automation & Robotics	MNT 217	F			3	CIS 111, Coreq: MNT 115
Mathematics Elective	---	F/S/SU			3	
Social Science Elective	---	F/S/SU			3	
Elective*	---	F/S/SU			3-4	
Semester 2						
Composition II	ENG 102	F/S/SU			3	ENG 101
Introduction to Business	MGT 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Humanities Elective	---	F/S/SU			3	
Mathematics Elective	---	F/S/SU			3	
Science Elective	---	F/S/SU			4	
Elective*	---	F/S/SU			3-4	
Total Credits Required					**60-62**	

Program Notes:

- MAT 108 is designed to teach students how to apply mathematics to specific technical disciplines and is offered for credit toward the Certificate in Manufacturing Technology. MAT 108 may not be considered equivalent to college level mathematics for the purpose of transfer of credit to some baccalaureate institutions. Students who plan to pursue QCC's Associate in Science in Manufacturing Technology are advised to take MAT 100.

*For the Elective, students must select from the following courses: BUS 205 (3 credits); ENG 205 (3 credits); MGT 211 (3 credits); MNT 103 (3 credits); MNT 105 (4 credits); MNT 216 (4 credits); MNT 218 (3 credits).

COMPUTER AIDED DESIGN CERTIFICATE (Program Code: CAD)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Microcomputer Applications or	CIS 111	F/S/SU			3	
Introduction to Computer Applications in Telecommunications	CIS 115	F/S				
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Mechanical CAD I	MNT 101	F/S			3	
Manufacturing Processes I	MNT 110	F			3	
Semester 2						
Mechanical CAD II	MNT 102	S			3	MNT 101
Solid Modeling	MNT 103	F/S			3	MNT 101
Manufacturing Quality Assurance & Control Techniques	MNT 106	S			4	
Program Elective*	---	F/S/SU			3	
Total Credits Required					**25**	

Program Notes:

- Students should note that many required courses have ENG and/or MAT prerequisites.

*Suggested Program Electives: With prefixes BIO, CHM, MAT, MNT, PHY, PSY, or SPH; or the following suggested courses: MGT 211, MGT 221, MRK 201, MRK 221; or a course approved by the Program Coordinator.

MEDICAL SUPPORT SPECIALIST - MEDICAL ASSISTING OPTION - Associate in Science (Program Code: MSMA)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Medical Terminology	ALH 102	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Medical Office Administration I	ALH 151	F			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, Coreq: ALH 102, BSS 101
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Clinical Procedures I	MSS 151	F			4	Coreq: ALH 151
Principles of Pharmacology for Medical Assistants	MSS 252	F			3	Coreq: MSS 151
Semester 3						
Medical Office Administration II	ALH 152	S			3	ALH 151
Medical Coding and Billing	ALH 107	F/S			3	ENG 096 with a grade of "C" or higher; or approp place score, Coreq: ALH 102
Principles of Human Biology* or	BIO 100	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to the Human Body	BIO 140					ENG 100 or approp place score
Clinical Procedures II	MSS 251	S			4	MSS 151
Fieldwork Experience	MSS 299	F/S			4	BIO 100 or BIO 140, ENG 101, MSS 151, Coreq: MSS 251, PSY 101
Semester 4						
Financial Accounting I	ACC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, MAT 090 with a "C" or higher on the MAT 090 departmental final exam or approp place score
Composition II	ENG 102	F/S/SU			3	ENG 101
Technical Writing for the Medical Environment or	MSS 211	S			3	ENG 101
Technical and Workplace Writing	ENG 205	F/S/SU				ENG 102, Computer Literacy
Liberal Arts Elective	---	F/S/SU			3	
Statistics	MAT 122	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Semester 5						
Health and Healing or	CHC 150	F			3	BIO 101, ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Fundamentals of Complementary Health	CHC 151					ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Advanced Microcomputer Applications	CIS 112	F/S/SU			3	CIS 111
Death & Dying	SOS 211	F/S			3	ENG 101
Program Elective	---	F/S/SU			3	
Total Credits Required					**67**	

Program Notes:

- A grade of "C" or higher is required for BIO 100 and all MSS courses in order to remain in and advance through the program.

*BIO 111, BIO 112 acceptable for BIO 100.

MEDICAL ASSISTING CERTIFICATE (Program Code: ME)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Introduction to Medical Terminology	ALH 102	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Medical Office Administration I	ALH 151	F			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score, Coreq: ALH 102, BSS 101
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Clinical Procedures I	MSS 151	F			4	Coreq: ALH 151
Principles of Pharmacology for Medical Assistants	MSS 252	F			3	Coreq: MSS 151
Semester 3						
Medical Office Administration II	ALH 152	S			3	ALH 151
Medical Coding and Billing	ALH 107	F/S			3	ENG 096 with a grade of "C" or higher; or approp place score, Coreq: ALH 102
Principles of Human Biology* or	BIO 100	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to the Human Body	BIO 140					ENG 100 or approp place score
Clinical Procedures II	MSS 251	S			4	MSS 151
Fieldwork Experience	MSS 299	F/S			4	BIO 100 or BIO 140, ENG 101, MSS 151, Coreq: MSS 251, PSY 101
Total Credits Required					**40**	

Program Notes:

- A grade of "C" or higher is required for BIO 100 and all MSS courses in order to remain in and advance through the program.

*BIO 111, BIO 112 acceptable for BIO 100.

NURSE EDUCATION - Associate in Science (Program Code: NUR)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Anatomy & Physiology I	BIO 111	F/S/SU			4	BIO 101 or High School Advanced Placement Biology, Coreq: ENG 101
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Anatomy & Physiology II	BIO 112	F/S/SU			4	BIO 111
Fundamentals of Nursing	NUR 104	F/S			7	Passing BIO 111 with a "C" or higher, ENG 101, Coreq: BIO 112, PSY 101, NUR 103
Current Concepts in Nursing & Health Care I	NUR 103	F/S			1	Passing BIO 111 with a "C" or higher, ENG 101, Coreq: BIO 112, PSY 101, NUR 104
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 3						
Medical Microbiology	BIO 232	F/S/SU			4	BIO 112 or CHM 123 or CHM 105
Medical Surgical Nursing I/Maternal Newborn	NUR 105	F/S			8	A grade of "C+" or higher is required in NUR 101, NUR 103 and NUR 104, Coreq: BIO 232, PSY 121
A Survey of Life Span Development: Conception to Death	PSY 121	F/S/SU			3	PSY 101
Semester 4						
Composition II	ENG 102	F/S/SU			3	ENG 101
History Elective*	---	F/S/SU			3	
Medical Surgical Nursing II/Pediatric	NUR 201	F/S/SU			10	BIO 112, BIO 232, PSY 121, a grade of "C+" or higher is required in NUR 105, Coreq: ENG 102, any HST, SOC 101 or SOC 111
Introductory Sociology (Principles) or	SOC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Social Problems & Social Change	SOC 111					Coreq: ENG 101
Semester 5						
Humanities Elective*	---	F/S/SU			3	
Advanced Medical Surgical Nursing III/Mental Health	NUR 202	F/S			10	ENG 102, any HST, SOC 101 or SOC 111, a grade of "C+" or higher is required in NUR 201, Coreq: NUR 203, Humanities Elective
Current Concepts in Nursing & Health Care II	NUR 203	F/S			2	A grade of "C+" or higher is required in NUR 201, Coreq: NUR 202
Total Credits Required					**71**	

Program Notes:

- To be eligible to continue in the program, students must achieve a grade of "C+" or higher in all nursing (NUR) courses.
- To be eligible to continue in the program, students must achieve a grade of "C" or higher in BIO 111, BIO 112, and BIO 232; students who have received a grade below a "C" in BIO 111, BIO 112, or BIO 232 are required to repeat the course and obtain a grade of "C" or higher by the end of the semester in which they are required or required as a prerequisite.
- In addition, students must demonstrate satisfactory performance in the nursing laboratory and in the clinical settings.
- Students must also satisfy all course and program requirements, including regulations on attendance and conduct, in order to be eligible for certification for licensure; students who do not have completed health files (including titres and immunizations) submitted to the Nurse Education Department and cleared by the Health Compliance Officer by July 15th, April 1st (Evening Students only for summer rotations), and January 5th of the respective semester will be removed from their nursing courses and will have to file for readmission to the next available semester.

*May be taken in either the first or second semester of the second year.

NURSE EDUCATION - EVENING - Associate in Science (Program Code: NUE)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1 (Summer I or Summer II)						
Anatomy & Physiology I	BIO 111	F/S/SU			4	BIO 101 or High School Advanced Placement Biology, Coreq: ENG 101
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2 (Fall)						
Anatomy & Physiology II	BIO 112	F/S/SU			4	BIO 111
Fundamentals of Nursing	NUR 104	F/S			7	Passing BIO 111 with a "C" or higher, ENG 101, Coreq: BIO 112, PSY 101, NUR 103
Current Concepts in Nursing & Health Care I	NUR 103	F/S			1	Passing BIO 111 with a "C" or higher, ENG 101, Coreq: BIO 112, PSY 101, NUR 104
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 3 (Spring)						
Medical Microbiology	BIO 232	F/S/SU			4	BIO 112 or CHM 123 or CHM 105
Medical Surgical Nursing I/Maternal Newborn (Jan-April)	NUR 105	F/S			8	A grade of "C+" or higher is required in NUR 101, NUR 103 and NUR 104, Coreq: BIO 232, PSY 121
A Survey of Life Span Development: Conception to Death	PSY 121	F/S/SU			3	PSY 101
Semester 4 (Summer I & Summer II)						
Composition II	ENG 102	F/S/SU			3	ENG 101
History Elective*	---	F/S/SU			3	
Medical Surgical Nursing II/Pediatric** (May-July)	NUR 201	F/S/SU			10	BIO 112, BIO 232, PSY 121, a grade of "C+" or higher is required in NUR 105, Coreq: ENG 102, any HST, SOC 101 or SOC 111
Introductory Sociology (Principles) or	SOC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Social Problems & Social Change	SOC 111					Coreq: ENG 101
Semester 5 (Fall)						
Humanities Elective*	---	F/S/SU			3	
Advanced Medical Surgical Nursing III/Mental Health	NUR 202	F/S			10	ENG 102, any HST, SOC 101 or SOC 111, a grade of "C+" or higher is required in NUR 201, Coreq: NUR 203, Humanities Elective
Current Concepts in Nursing & Health Care II	NUR 203	F/S			2	A grade of "C+" or higher is required in NUR 201, Coreq: NUR 202
Total Credits Required					**71**	

Program Notes:

- To be eligible to continue in the program, students must achieve a grade of "C+" or higher in all nursing (NUR) courses.
- To be eligible to continue in the program, students must achieve a grade of "C" or higher in BIO 111, BIO 112, and BIO 232; students who have received a grade below a "C" in BIO 111, BIO 112, or BIO 232 are required to repeat the course and obtain a grade of "C" or higher by the end of the semester in which they are required or required as a prerequisite.

*May be taken in either the summer or fall semester.
**Class may be held during the daytime.

ADVANCED PLACEMENT NURSE EDUCATION LPN - Associate in Science (Program Code: NUL)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1 (Summer I)						
Anatomy & Physiology I	BIO 111	F/S/SU			4	BIO 101 or High School Advanced Placement Biology, Coreq: ENG 101
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2 (Summer II)						
Anatomy & Physiology II	BIO 112	F/S/SU			4	BIO 111
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 3 (Fall)						
Advanced Placement Nursing I (Dec-Jan)	NUR 101	F			1	Passing BIO 112 with a "C" or higher, PSY 101, NUR 100 or Admission to Advanced Placement Nurse Education LPN to ADN Program
Semester 4 (Spring)						
Medical Microbiology	BIO 232	F/S/SU			4	BIO 112 or CHM 123 or CHM 105
Medical Surgical Nursing I/Maternal Newborn (Jan-April)	NUR 105	F/S			8	A grade of "C+" or higher is required in NUR 101, NUR 103 and NUR 104, Coreq: BIO 232, PSY 121
A Survey of Life Span Development: Conception to Death	PSY 121	F/S/SU			3	PSY 101
Semester 5 (Summer I & Summer II)						
Composition II	ENG 102	F/S/SU			3	ENG 101
History Elective*	---	F/S/SU			3	
Medical Surgical Nursing II/Pediatric** (May-July)	NUR 201	F/S/SU			10	BIO 112, BIO 232, PSY 121, a grade of "C+" or higher is required in NUR 105, Coreq: ENG 102, any HST, SOC 101 or SOC 111
Introductory Sociology (Principles) or	SOC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Social Problems & Social Change	SOC 111					Coreq: ENG 101
Semester 6 (Fall)						
Humanities Elective*	---	F/S/SU			3	
Advanced Medical Surgical Nursing III/Mental Health	NUR 202	F/S			10	ENG 102, any HST, SOC 101 or SOC 111, a grade of "C+" or higher is required in NUR 201, Coreq: NUR 203, Humanities Elective
Current Concepts in Nursing & Health Care II	NUR 203	F/S			2	A grade of "C+" or higher is required in NUR 201, Coreq: NUR 202
Total Credits Required					**64**	

Program Notes:

- To be eligible to continue in the program, students must achieve a grade of "C+" or higher in all nursing (NUR) courses.
- To be eligible to continue in the program, students must achieve a grade of "C" or higher in BIO 111, BIO 112, and BIO 232; students who have received a grade below a "C" in BIO 111, BIO 112, or BIO 232 are required to repeat the course and obtain a grade of "C" or higher by the end of the semester in which they are required or required as a prerequisite.

*May be taken in either the summer or fall semester.

**Class may be held during the daytime.

ADVANCED PLACEMENT NURSE EDUCATION PARAMEDIC - Associate in Science (Program Code: NUP)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1 (Summer I)						
Anatomy & Physiology I	BIO 111	F/S/SU			4	BIO 101 or High School Advanced Placement Biology, Coreq: ENG 101
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2 (Summer II)						
Anatomy & Physiology II	BIO 112	F/S/SU			4	BIO 111
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 3 (Fall)						
Paramedic to ADN Bridge* (Oct-Nov)	NUR 100	F			1	Passing both BIO 111 and BIO 112 with a "C" or higher, PSY 101, ENG 101
Advanced Placement Nursing I (Dec-Jan)	NUR 101	F			1	Passing BIO 112 with a "C" or higher, PSY 101, NUR 100 or Admission to Advanced Placement Nurse Education LPN to ADN Program
Semester 4 (Spring)						
Medical Microbiology	BIO 232	F/S/SU			4	BIO 112 or CHM 123 or CHM 105
Medical Surgical Nursing I/Maternal Newborn (Jan-April)	NUR 105	F/S			8	A grade of "C+" or higher is required in NUR 101, NUR 103 and NUR 104, Coreq: BIO 232, PSY 121
A Survey of Life Span Development: Conception to Death	PSY 121	F/S/SU			3	PSY 101
Semester 5 (Summer I & Summer II)						
Composition II	ENG 102	F/S/SU			3	ENG 101
History Elective**	---	F/S/SU			3	
Medical Surgical Nursing II/Pediatric*** (May-July)	NUR 201	F/S/SU			10	BIO 112, BIO 232, PSY 121, a grade of "C+" or higher is required in NUR 105, Coreq: ENG 102, any HST, SOC 101 or SOC 111
Introductory Sociology (Principles) or	SOC 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Social Problems & Social Change	SOC 111					Coreq: ENG 101
Semester 6 (Fall)						
Humanities Elective**	---	F/S/SU			3	
Advanced Medical Surgical Nursing III/Mental Health	NUR 202	F/S			10	ENG 102, any HST, SOC 101 or SOC 111, a grade of "C+" or higher is required in NUR 201, Coreq: NUR 203, Humanities Elective
Current Concepts in Nursing & Health Care II	NUR 203	F/S			2	A grade of "C+" or higher is required in NUR 201, Coreq: NUR 202
Total Credits Required					**65**	

Program Notes:

- To be eligible to continue in the program, students must achieve a grade of "C+" or higher in all nursing (NUR) courses.
- To be eligible to continue in the program, students must achieve a grade of "C" or higher in BIO 111, BIO 112, and BIO 232; students who have received a grade below a "C" in BIO 111, BIO 112, or BIO 232 are required to repeat the course and obtain a grade of "C" or higher by the end of the semester in which they are required or required as a prerequisite.

*Students must successfully complete NUR 100 with a "C+" or higher before taking NUR 101.
**May be taken in either the summer or fall semester.
***Class may be held during the daytime.

PRACTICAL NURSING CERTIFICATE (Program Code: LP)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Principles of Human Biology or	BIO 100	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to the Human Body	BIO 140					ENG 100 or approp place score
Practical Nursing I	PNP 101	F			10	Acceptance to the PNP Program, Coreq: BIO 100 or BIO 140
Introduction to Pharmacology	PNP 111	F			3	Acceptance to the PNP Program, Coreq: BIO 100 or BIO 140
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
A Survey of Life Span Development: Conception to Death	PSY 121	F/S/SU			3	PSY 101
Semester 3						
Practical Nursing II: Medical/Surgical/Mental Health Nursing	PNP 200	S			11	PNP 101, PNP 111, PSY 121, Coreq: PNP 210, PNP 222, PNP 233
Nutrition Concepts in Health and Illness	PNP 210	S			1	BIO 100 or BIO 140, PNP 101, PNP 111, Coreq: PNP 200, PNP 222, PNP 233
Clinical Pharmacology	PNP 222	S			2	PNP 111, Coreq: PNP 200, PNP 210, PNP 233
Trends in Practical Nursing	PNP 233	S			1	PNP 101, PNP 111, Coreq: PNP 200, PNP 210, PNP 222
Semester 4						
Practical Nursing III: Pediatric/Maternal/Newborn/Leadership Management Nursing	PNP 202	SU			8	BIO 100 or BIO 140, PNP 200, PNP 210, PNP 222, PNP 233, PSY 121
Total Credits Required					**46**	

PRACTICAL NURSING CERTIFICATE - EVENING (Program Code: LPE)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Principles of Human Biology or	BIO 100	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to the Human Body	BIO 140					ENG 100 or approp place score
Practical Nursing I	PNP 101	F			10	Acceptance to the PNP Program, Coreq: BIO 100 or BIO 140
Introduction to Pharmacology	PNP 111	F			3	Acceptance to the PNP Program, Coreq: BIO 100 or BIO 140
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
A Survey of Life Span Development: Conception to Death	PSY 121	F/S/SU			3	PSY 101
Semester 3						
Practical Nursing II: Medical/Surgical/Mental Health Nursing	PNP 200	S			11	PNP 101, PNP 111, PSY 121, Coreq: PNP 210, PNP 222, PNP 233
Nutrition Concepts in Health and Illness	PNP 210	S			1	BIO 100 or BIO 140, PNP 101, PNP 111, Coreq: PNP 200, PNP 222, PNP 233
Clinical Pharmacology	PNP 222	S			2	PNP 111, Coreq: PNP 200, PNP 210, PNP 233
Trends in Practical Nursing	PNP 233	S			1	PNP 101, PNP 111, Coreq: PNP 200, PNP 210, PNP 222
Semester 4						
Practical Nursing III: Pediatric/Maternal/Newborn/Leadership Management Nursing	PNP 202	SU			8	BIO 100 or BIO 140, PNP 200, PNP 210, PNP 222, PNP 233, PSY 121
Total Credits Required					**46**	

OCCUPATIONAL THERAPY ASSISTANT - Associate in Science (Program Code: OT)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1 (Fall)						
Anatomy & Physiology I	BIO 111	F/S/SU			4	BIO 101 or High School Advanced Placement Biology, Coreq: ENG 101
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to Occupational Therapy: Concepts & Interventions	OTA 101	F			3	
Occupational Therapy: Methods and Modalities I	OTA 131	F			3	Coreq: OTA 101
Introduction to Psychology	PSY 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Liberal Arts Elective	---	F/S/SU			3	
Semester 2 (Spring)						
Anatomy & Physiology II	BIO 112	F/S/SU			4	BIO 111
Group Process and Interventions	OTA 103	S			4	OTA 101, PSY 101
Developing Professional Behaviors	OTA 105	S			3	OTA 101
Concepts and Occupational Therapy Interventions with the Physically Challenged	OTA 223	S			4	BIO 111, OTA 101, OTA 131
A Survey of Life Span Development: Conception to Death	PSY 121	F/S/SU			3	PSY 101
Semester 3 (Fall)						
Composition II	ENG 102	F/S/SU			3	ENG 101
Occupational Therapy with the Older Adult	OTA 211	F			3	OTA 101, PSY 121
Developmental Problems and Practice with Children	OTA 215	F			4	OTA 101, PSY 121
Concepts and Occupational Therapy Interventions in Mental Health	OTA 221	F			4	OTA 101, OTA 103, PSY 101
Occupational Therapy: Methods and Modalities II	OTA 231	F			3	OTA 101, OTA 131
Semester 4 (Spring)						
Occupational Therapy Field Placement I	OTA 241	S			7	BIO 112, ENG 102, OTA 105, OTA 211, OTA 215, OTA 221, OTA 223, OTA 231
Occupational Therapy Field Placement II	OTA 242	S			7	BIO 112, ENG 102, OTA 105, OTA 211, OTA 215, OTA 221, OTA 223, OTA 231
Total Credits Required					**68**	

Program Notes:

- A grade of "C" or higher is required for ENG 101, ENG 102, BIO 111, BIO 112, and all OTA courses in order to remain in and advance through the program.
- Both OTA 241 and OTA 242 must be completed within 18 months of the OTA didactic coursework.

RADIOLOGIC TECHNOLOGY - Associate in Science (Program Code: RT)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1 (Summer I & Summer II)						
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Anatomy & Physiology I	BIO 111	F/S/SU			4	BIO 101 or High School Advanced Placement Biology, Coreq: ENG 101
Statistics	MAT 122	F/S/SU			3	MAT 099 with a "C" or higher on the MAT 099 departmental final exam or approp place score
Semester 2 (Fall)						
Introduction to Psychology or Psychology of Interpersonal Relations	PSY 101 PSY 118	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Speech Communication Skills	SPH 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Patient Care & Ethics in Radiology	RDT 102	F			3	Accepted to RT Program
Radiographic Medical Terminology	RDT 104	F			1	Accepted to RT Program
Fundamentals of Radiographic Equipment and Medical Imaging	RDT 110	F			3	Accepted to RT Program, MAT 122
Radiographic Positioning & Anatomy I	RDT 121	F			3	Coreq: RDT 102, RDT 104
Medical Radiography Clinic I	RDT 131	F			2	Coreq: RDT 110, RDT 121
Semester 3 (Spring)						
Anatomy & Physiology II	BIO 112	F/S/SU			4	BIO 111
Medical Imaging II	RDT 112	S			3	RDT 110
Radiographic Positioning & Anatomy II	RDT 122	S			3	RDT 121, SPH 101
Medical Radiography Clinic II	RDT 132	S			5	RDT 131
Radiation Science	RDT 141	S			2	RDT 110
Semester 4 (Fall)						
Composition II	ENG 102	F/S/SU			3	ENG 101
Medical Radiography Clinic III	RDT 231	F			5	RDT 132
Imaging Applications	RDT 240	F			4	RDT 112, RDT 122
Medical Radiographic Equipment & Quality Assurance	RDT 245	F			3	RDT 112
Semester 5 (Spring)						
Medical Radiography Clinic IV	RDT 232	S			5	RDT 231
Radiology Seminar	RDT 252	S			4	BIO 112, RDT 231, RDT 240
Radiologic Pharmacology and Pathology	RDT 254	S			3	BIO 112, RDT 231, RDT 240
CT & Cross Section Anatomy	RDT 260	S			1	BIO 112, RDT 231, RDT 240
Total Credits Required					**73**	

Program Notes:

- A grade of "C" or higher is required for BIO 111, BIO 112, and all RDT courses in order to remain in and advance through the program.

RESPIRATORY CARE - Associate in Science (Program Code: RS)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1 (Fall)						
Anatomy & Physiology I	BIO 111	F/S/SU			4	BIO 101 or High School Advanced Placement Biology, Coreq: ENG 101
Composition I	ENG 101	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Fundamentals of Respiratory Care I	RCP 103	F			2	Coreq: RCP 121
Medical Lectures I	RCP 111	F			3	
Clinical I	RCP 121	F			3	Coreq: RCP 103
Pharmacology	RCP 141	F			3	Coreq: RCP 111
Semester 2 (Spring)						
Anatomy & Physiology II	BIO 112	F/S/SU			4	BIO 111
Composition II	ENG 102	F/S/SU			3	ENG 101
Physics for Respiratory Care	PHY 103	S			2	MAT 095 with a "C" or higher on the MAT 095 departmental final exam or approp place score
Fundamentals of Respiratory Care II	RCP 104	S			2	RCP 103, RCP 121, Coreq: RCP 122
Medical Lectures II	RCP 112	S			3	RCP 111
Clinical II	RCP 122	S			3	RCP 103, RCP 121, RCP 141, Coreq: RCP 104
Semester 3 (Summer)						
Critical Care I Laboratory	RCP 230	SU			1	BIO 112, RCP 122
Semester 4 (Fall)						
Introduction to Psychology or Psychology of Interpersonal Relations	PSY 101 PSY 118	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Medical Lectures III	RCP 113	F			3	BIO 112, RCP 112
Cardiopulmonary Technology	RCP 131	F			2	BIO 112, RCP 122
Clinical III	RCP 221	F			5	BIO 112, RCP 122
Critical Care II	RCP 231	F			3	RCP 230
Elective	---	F/S/SU			3	
Semester 5 (Spring)						
Medical Microbiology	BIO 232	F/S/SU			4	BIO 112 or CHM 123 or CHM 105
Bioethics	IDS 215	S			3	Coreq: ENG 101
Medical Lectures IV	RCP 114	S			3	BIO 112, RCP 113
Clinical IV	RCP 222	S			5	BIO 112, RCP 221
Neonatal and Pediatric Respiratory Care	RCP 243	S			3	BIO 112, RCP 221
Respiratory Care Seminar	RCP 245	S			2	BIO 112, Coreq: RCP 222
Total Credits Required					**75**	

Program Notes:

- To be eligible to remain in the program, all students must achieve a grade of "C" or higher in all Respiratory Care (RCP) courses and in PHY 103, BIO 111, BIO 112, and BIO 232. In addition, students must satisfy all course and program requirements, including regulations on conduct, professionalism, and attendance in order to remain in the program.

SURGICAL TECHNOLOGY CERTIFICATE (Program Code: ST)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1 (Summer I or Summer II)						
Asepsis	SUR 115	SU			2	Enrollment limited to Surgical Technology majors only
Principles of Human Biology or	BIO 100	F/S/SU			4	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Introduction to the Human Body	BIO 140					ENG 100 or approp place score
Introduction to Medical Terminology	ALH 102	F/S/SU			3	ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or approp place score
Semester 2						
Perioperative Issues	SUR 101	F			3	BIO 100 or BIO 140, SUR 115, Coreq: SUR 111
Operating Room Techniques	SUR 111	F			5	SUR 115, ALH 102, Coreq: SUR 101
Surgical Procedures I	SUR 121	F			8	BIO 100 or BIO 140, SUR 115, Coreq: SUR 111
Ethics	SUR 230	F			1	
Semester 3						
Clinical I	SUR 199	S			4	SUR 101, SUR 111, SUR 121, SUR 230
Surgical Procedures II	SUR 221	S			3	SUR 121
Clinical II	SUR 290	S			6	SUR 199
Clinical III	SUR 299	S			6	SUR 290
Total Credits Required					**45**	

Program Notes:

- A grade of "C" or higher is required in all classes.