



**ASSOCIATE OF APPLIED SCIENCE COURSES**  
**2012-2013 Catalog Year**

Specific programs may designate or limit course options. The General Education requirements for certain programs may exceed 16 credit minimum.

**COMMUNICATIONS (6 CREDITS)**  
*See specific program requirements*

**MATHEMATICS (3-4 CREDITS)**  
*See specific program requirements*

**DISCIPLINE STUDIES (7 CREDITS)**--unless otherwise noted in a program description, students must take one course from Physical and Biological Sciences and one course from either Arts and Humanities or Social and Behavioral Sciences.

**ARTS AND HUMANITIES**

ART 101 Understanding Art  
 ART 115 Art History I  
 ART 116 Art History II  
 ENL 220 World Literature I  
 ENL 221 World Literature II  
 ENL 224 English Literature I  
 ENL 225 English Literature II  
 ENL 230 American Literature I  
 ENL 231 American Literature II  
 HUM 150 Humanities—Western World I  
 HUM 151 Humanities—Western World II  
 MUS 150 Music Appreciation  
 PHL 101 Introduction to Philosophy  
 PHL 105 Introduction to Ethics  
 SPT 130 Introduction to Theatre  
 SPT 150 Introduction to Film  
 SPT 155 History of Television

**PHYSICAL AND BIOLOGICAL SCIENCES**

BIO 100 Biology Concepts  
 BIO 105 Environmental Biology  
 BIO 160 Intro to Human Anatomy & Physiology  
 BIO 181 General Biology I  
 BIO 182 General Biology II  
 BIO 201 Human Anatomy and Physiology I  
 BIO 202 Human Anatomy and Physiology II  
 CHM 130 Fundamental Chemistry  
 CHM 151 General Chemistry I  
 CHM 152 General Chemistry II  
 GEO 111 Physical Geography  
 GLG 101 Introduction to Geology I—Physical  
 GLG 102 Introduction to Geology II—Historical  
 PHY 113 General Physics I  
 PHY 114 General Physics II

**SOCIAL AND BEHAVIORAL SCIENCES**

ANT 102 Cultural Anthropology  
 ANT 120 Buried Cities and Lost Tribes  
 BUS 140 Principles of Economics—Macro  
 BUS 141 Principles of Economics—Micro  
 GEO 110 World Regional Geography  
 GEO 120 Human Geography  
 HIS 105 U.S. History to 1877  
 HIS 106 U.S. History Since 1877  
 HIS 155 Western Civilization to 1700  
 HIS 156 Western Civilization Since 1700  
 POS 110 American Government  
 PSY 101 Introduction to Psychology  
 PSY 200 Psychology of Adjustment  
 PSY 240 Developmental Psychology  
 SOC 120 General Sociology  
 SOC 121 Social Problems in America  
 SOC 130 Racial, Ethnic and Gender Relations  
 SOC 225 Sociology of the Family

**COMPUTER INFORMATION SYSTEMS REQUIRED ELECTIVES** – In addition to the area of specialization core requirements, student must complete 18 -20 unduplicated credits from the following courses:

AIS 170 Written Business Communications	CIS 119 Page Layout and Design	CIS 200 BASIC Programming
BUS 110 Small Business Management	CIS 125 Effective Communication with Digital Media	CIS 217 Java Programming, Introductory
BUS 112 Fundamentals of Bookkeeping for Business	CIS 141 Managing and Maintaining Your PC I (A+)	CIS 226 Programming in C++
<b>OR</b>	CIS 142 Managing and Maintaining Your PC II (A+)	CIS 243 Database-Driven Web Sites
BUS 117 Principles of Accounting I-Financial	CIS 145 Network+ Certification Preparation	CIS 245 Database Management and Concepts
CIS 103 Introduction to Windows	CIS 150 Digital Culture	CIS 250 Electronic Commerce
CIS 105 Computer Applications and Information Technology	CIS 161 Microsoft Operating System	CIS 265 Web Programming
CIS 111 Introduction to Programming	CIS 168 Web Authoring Tools	CIS 275 Web Server Administration
CIS 113 Multimedia	CIS 171 GNU Linux Operating System	CIS 280 Systems Analysis and Design
CIS 115 Introduction to Graphic Communication Technology	CIS 183 Introduction to Internet	CIS 286 Educational Technology
CIS 116 Computer Photographic Imaging	CIS 187 Introduction to Web Development	CIS 298 Portfolio
CIS 117 Two-Dimensional Computer Design	CIS 198 Internship	CIS 299 Special Projects
CIS 118 Graphics, Interactive and Animated	CIS 199 Workshop	