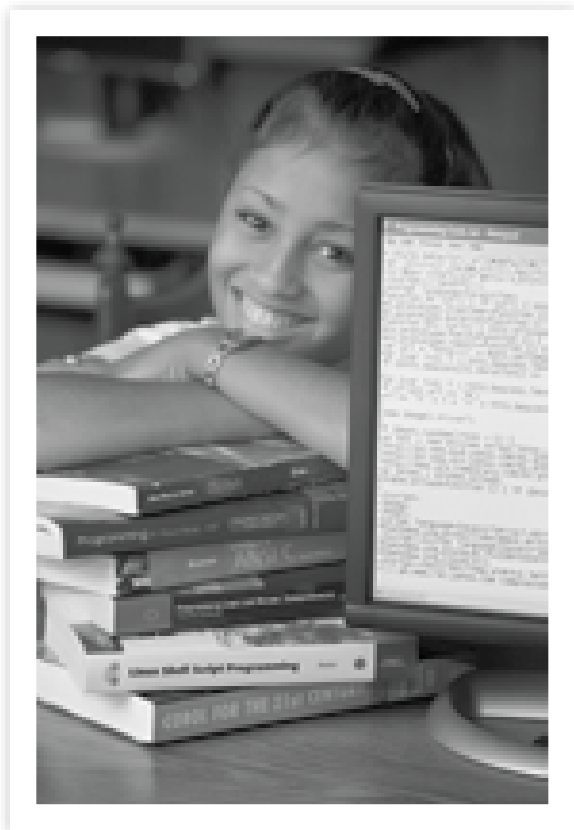


ASSOCIATE DEGREE/ TECHNICAL PROGRAMS

AAS • Associate in Applied Science Degree

AS/AAS • Both AS and AAS Degrees

AS • Associate in Science Degree



Associate in Science Degree/ Associate in Applied Science Degree

Occupational Program Designations:

AS • ASSOCIATE IN SCIENCE DEGREE

AAS • ASSOCIATE IN APPLIED SCIENCE DEGREE

AS/AAS • BOTH AS AND AAS DEGREES

AAS • ACCOUNTING TECHNOLOGY

AAS.ACG.TECH (64 Credit Hours)

This program will prepare students for a position as an accountant or as an accounting para-professional in advanced professional accounting occupations requiring analysis, evaluation, theory and design.

The course work focuses on basic accounting functions as well as skills common to several fields of business, including finance, business law and general business topics.

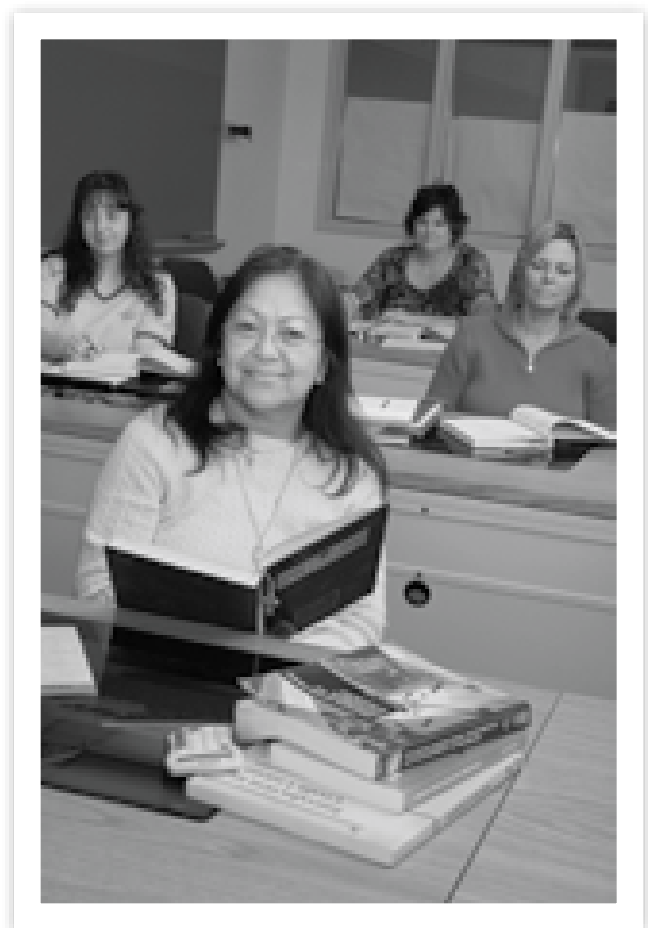
General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
PSY 2012	General Psychology	3 cr.
SYG 2000	Introduction to Sociology	3 cr.
	Humanities General Education	3 cr.

Program Required Courses 49 cr.

*ACG 2021	Financial Accounting	3 cr.
ACG 2071	Managerial Accounting	3 cr.
ACG 2100	Intermediate Accounting I	3 cr.
ACG 2110	Intermediate Accounting II	3 cr.
ACG 2340	Cost Accounting I	3 cr.
ACG 2350	Cost Accounting II	3 cr.
ACG 2450	Microcomputers in Accounting	3 cr.
CGS 1000	Introduction to Computers and Technology	3 cr.
CGS 2301	Management Information Systems	3 cr.
COP 1000	Programming Logic	3 cr.
ECO 1000	Introduction to Economics or ECO 2023 Principles of Microeconomics	3 cr.
FIN 2001	Principles of Finance	3 cr.
MAN 1021	Principles of Management	3 cr.
OST 1335	Business Communications	3 cr.
SPC 1006	Speech Improvement	1 cr.
TAX 2000	Federal Tax Accounting I	3 cr.
TAX 2010	Federal Tax Accounting II	3 cr.

* Recommended course(s) for the first semester.



AS/AAS • AQUACULTURE

AS.AQUA/AAS.AQUA (60 Credit Hours)

This program will provide students with the knowledge and skills for an entry-level job in the aquaculture industry as a field/farm assistant or a laboratory technician. When students graduate they may also find employment in state agencies such as the Fresh Water Fish and Wildlife Commission that oversee environment and wildlife.

General Education Requirements 16 cr.

ENC 1101	English Composition I	3 cr.
ESC 1000	Earth Science and ESC 1000L and Earth Science Laboratory or	
OCB 2000	Marine Biology and	3 cr.
OCB 2000L	Marine Biology Laboratory	1 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
	Humanities General Education	3 cr.
	Social Science General Education (ANT 2000 or PSY 2012 or SYG 2000)	3 cr.

Program Required Courses 44 cr.

CGS 1107	Introduction to Computers	1 cr.
CHM 1025	Modern Chemistry	3 cr.
CHM 1025L	Modern Chemistry Laboratory	1 cr.
*FAS 1012C	Aquacultural Organisms	3 cr.
FAS 1401L	Aquacultural Laboratory Techniques	3 cr.
FAS 1404C	Aquacultural Field Techniques	3 cr.
FAS 2240C	Aquacultural Nutritional Techniques	3 cr.
FAS 2253	Aquacultural Disease Processes	3 cr.
FAS 2253L	Aquacultural Disease Processes Laboratory	1 cr.
FAS 2263C	Aquacultural Reproductive Techniques	3 cr.
FAS 2353C	Aquacultural Management Practices	3 cr.
FAS 2941L	Aquacultural Field Experience I	3 cr.
FAS 2942L	Aquacultural Field Experience II	3 cr.
FAS 2943L	Aquacultural Field Experience III	3 cr.
IDS 1152C	Environmental Science	3 cr.
SPC 1006	Speech Improvement	1 cr.
*ZOO 1450	Ichthyology	3 cr.
*ZOO 1450L	Ichthyology Laboratory	1 cr.

* Recommended course(s) for the first semester.

AS/AAS • ARCHITECTURAL DESIGN AND CONSTRUCTION TECHNOLOGY

AS. ADCT/AAS. ADCT (66 Credit Hours)

This program will prepare students for a position as a construction planner or as an assistant to an architect or an architectural engineer in the planning and designing of structures, using construction materials and working with contracts and specifications. If students pass the contractor's exam, they may become self-employed as contractors.

The course work in this program focuses on using the latest technology to solve problems faced by the architect, the engineer and building contractor as they apply to the planning and construction of buildings.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
	Humanities General Education	3 cr.
	Natural Science General Education or Humanities or Social Science General Education	3 cr.
	Social Science General Education	3 cr.

Program Required Courses 51 cr.

ARC 2304	Architectural Design IV	5 cr.
ARC 2461	Materials and Methods I	3 cr.
ARC 2501	Architectural Structures I	4 cr.
*BCN 1210	Construction Materials and Processes	3 cr.
*BCN 1250	Introduction to Graphic Technology	3 cr.
*BCN 2272	Blueprint Reading	3 cr.
BCN 2291C	Construction Materials Testing I	3 cr.
BCN 2942	Construction Internship	3 cr.
BCT 2770C	Construction Estimating	3 cr.
CGS 1107	Introduction to Computers	1 cr.
SPC 1006	Speech Improvement	1 cr.
SUR 2000C	Surveying I	3 cr.
TAR 1120	Architectural Drawing I	3 cr.
TAR 1122C	Architectural Drawing II	3 cr.
TAR 2053	Introduction to Computer Aided Design and Drafting	3 cr.
TAR 2054	Intermediate Computer Aided Design and Drafting	3 cr.
TAR 2055	Advanced Computer Aided Design & Drafting	3 cr.
	Elective	1 cr.

* Recommended course(s) for the first semester.

AS/AAS • BUSINESS ADMINISTRATION

AS.BUS.MAN/AS.BUS.MAN.INT/AAS.BUS.MAN.INT/AAS.BUS.MAR (64 Credit Hours)

AS • Business Administration and Management

AS.BUS.MAN

The associate in science degree in Business Administration and Management prepares students to assume management or supervisory positions in business, industry, and government. It provides basic skills in a broad range of business functions including accounting, computer usage, management, and marketing.

NOTE: Beginning Fall Term 2000, all graduates of this program shall articulate into a business administration baccalaureate degree in the designated university program under the provision of Rule 6A-10.024, Articulation Between Universities, Community Colleges, and School Districts.

General Education Requirements 18 cr.

ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II	3 cr.
MAC 1105	College Algebra	3 cr.
SPC 1600	Public Speaking	3 cr.
STA 2023	Elementary Statistics	3 cr.
	Humanities General Education	3 cr.

Program Required Courses 46 cr.

*ACG 2021	Financial Accounting	3 cr.
ACG 2071	Managerial Accounting	3 cr.
*CGS 1000	Introduction to Computers and Technology	3 cr.
ECO 2013	Principles of Macroeconomics	3 cr.
ECO 2023	Principles of Microeconomics	3 cr.
FIN 2001	Principles of Finance	3 cr.
*GEB 1011	Introduction to Business	3 cr.
MAC 2233	Calculus for Business & Social Science	3 cr.
MAN 1021	Principles of Management	3 cr.
MAR 1011	Principles of Marketing	3 cr.

Select 16 credit hours from the following:

BUL 2241	Business Law I	3 cr.
BUL 2242	Business Law II	3 cr.
CGS 1104	Accounting Applications	1 cr.
CGS 1160	Desktop Information Management	1 cr.
CGS 1510	Spreadsheet Applications	1 cr.
CGS 1540	Database Management I	1 cr.
CGS 2301	Management Information Systems	3 cr.
GEB 2350	Introduction to International Business Essentials	3 cr.
MNA 1162	Introduction to Customer Service Technology	3 cr.
OST 1335	Business Communications	3 cr.
PHI 1600	Ethics	3 cr.
SBM 2000	Small Business Management	3 cr.
SPN 1015	Conservational Spanish for Occupational Programs	2 cr.

* Recommended course(s) for the first semester.

AS/AAS • Business Administration – International Business Management

AS.BUS.MAN.INT/AAS.BUS.MAN.INT (64 Credit Hours)

General Education Requirements 15 cr.

ANT 2000	Introduction to Anthropology	3 cr.
ENC 1101	English Composition I	3 cr.
PSY 2012	General Psychology	3 cr.

Select 3 credit hours from the following:

HUM 2230	World Humanities: Early Modern to Contemporary	3 cr.
HUM 2410	World Humanities: Prehistory to the Early Modern Era	3 cr.
HUM 2420	African Humanities	3 cr.

Select 3 credit hours from the following:

MGF 1106	Mathematics for Liberal Arts I (transfer)	3 cr.
MGF 1119	Introductory Mathematics w/ Applications (non-transfer)	3 cr.

Program Required Courses 49 cr.

*ACG 2021	Financial Accounting	3 cr.
BUL 2241	Business Law I	3 cr.
BUL 2242	Business Law II	3 cr.
CGS 1000	Introduction to Computers and Technology	3 cr.
ECO 1000	Introduction to Economics	3 cr.
FIN 2001	Principles of Finance	3 cr.
FIN 2051	International Financial Management	3 cr.
GEB 1011	Introduction to Business	3 cr.
GEB 2350	Introduction to International Business Essentials	3 cr.
GEB 2370	Introduction to International Business Policy Issues	3 cr.
MAN 1021	Principles of Management	3 cr.
MAN 1949	Management Internship	3 cr.
MAN 2604	Intercultural Relations in Business	3 cr.
MAR 1011	Principles of Marketing	3 cr.
MAR 2150	International Marketing	3 cr.
OST 1335	Business Communications	3 cr.
SPC 1006	Speech Improvement	1 cr.

AAS • Business Administration Marketing

AAS.BUS.MAR (64 Credit Hours)

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II	3 cr.
MAC 1105	College Algebra	3 cr.
SPC 1600	Public Speaking	3 cr.
	Humanities General Education	3 cr.

Program Required Courses 49 cr.

*ACG 2021	Financial Accounting	3 cr.
ACG 2071	Managerial Accounting	3 cr.
*CGS 1000	Introduction to Computers and Technology	3 cr.
ECO 2013	Principles of Macroeconomics	3 cr.
ECO 2023	Principles of Microeconomics	3 cr.
MAC 2233	Calculus for Business & Social Science	3 cr.
STA 2023	Elementary Statistics	3 cr.

Select 28 credit hours from the following:

CGS 1107	Introduction to Computers	1 cr.
GEB 1011	Introduction to Business	3 cr.
MAR 1011	Principles of Marketing	3 cr.
MAR 2150	International Marketing	3 cr.
MKA 1041	Introduction to Retailing	3 cr.
MKA 1949	Marketing Internship	3 cr.
MKA 2021	Salesmanship	3 cr.
MKA 2103	Merchandising	3 cr.
MKA 2105	Marketing Problems	3 cr.
MKA 2162	Creative Selling	3 cr.

* Recommended course(s) for the first semester.

AS/AAS • COMPUTER ENGINEERING TECHNOLOGY

AS.CET.UNIV/AAS.CET (68 Credit Hours)

AS • Computer Engineering Technology

AS.CET.UNIV (68 Credit Hours)

General Education Requirements 22 cr.

ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II	3 cr.
MAC 1105	College Algebra	3 cr.
SPC 1600	Public Speaking	3 cr.
PHY 1053	General Physics I	3 cr.
PHY 1053L	General Physics I Laboratory	1 cr.
	Humanities General Education	3 cr.
	Social Science General Education	3 cr.

Program Required Courses 46 cr.

*CET 1114C	Basic Digital Systems	3 cr.
CET 1122C	Introduction to Microprocessors	3 cr.
CET 2113C	Digital Systems Analysis	3 cr.
CET 2152C	Advanced Microprocessors	3 cr.
CET 2939	Computer Engineering Technology Capstone	3 cr.
CGS 1000	Introduction to Computers and Technology	3 cr.
*EET 1036C	Basic AC and DC	3 cr.
EET 1037C	Circuit Analysis	3 cr.
*EET 1083C	Electronics Orientation	3 cr.
EET 1141C	Solid State Devices	3 cr.
EET 1142C	Solid State Circuits	3 cr.
EET 2155C	Linear Integrated Circuits	3 cr.
MAC 1114	Trigonometry	3 cr.

Select 3 credit hours from the following:

AMH 1010	Early American History	3 cr.
AMH 1020	Modern American History	3 cr.
ANT 2000	Introduction to Anthropology	3 cr.
EUH 1000	The Western World: Origins to Early Modern Europe	3 cr.

EUH 1001	The Western World: Modern Europe	3 cr.
POS 1001	Introduction to Political Science	3 cr.
POS 2041	American Government	3 cr.

Select 4 credit hours from the following:

CET 1172C	Computer Upgrade and Repair	3 cr.
CET 1174C	Advanced Computer Repair	3 cr.
CET 1556C	Structured Cabling	3 cr.
CET 2335C	Microcomputer Systems	3 cr.
CGS 1500	Applied Word Processing	1 cr.
CGS 1510	Spreadsheet Applications	1 cr.
CGS 1520	Business Graphics I	1 cr.
CGS 1540	Database Management I	1 cr.
CGS 1550	Introduction to Networking	3 cr.
CGS 1554	Internet Basics	1 cr.
COP 1000	Programming Logic	3 cr.
COP 1220	Programming in "C"	3 cr.
COP 1820	Visual Basic, Beginning	3 cr.
COP 1821	Visual Basic, Advanced	3 cr.
COP 2800	JAVA Programming	3 cr.
ECO 2013	Principles of Macroeconomics	3 cr.

* Recommended course(s) for the first semester.

AAS • Computer Engineering Technology

AAS.CET (68 Credit Hours)

This program will prepare students for employment in an entry-level position as a computer technician. The course work focuses on the diagnosis and repair of hardware and software in micro, mini and mainframe computers. With minimal additional specialized training, students may become a field or in-house shop technician.

General Education Requirements 16 cr.

ENC 1101	English Composition I	3 cr.
MGF 1119	Introductory Mathematics w/ Applications	3 cr.
PSC 1515	Energy and the Environment	3 cr.
PSC 1515L	Energy and the Environment Laboratory	1 cr.
	Humanities General Education	3 cr.
	Social Science General Education	3 cr.

Program Required Courses 52 cr.

CEN 1300	Administering M/S Windows NT	3 cr.
*CET 1114C	Basic Digital Systems	3 cr.
CET 1122C	Introduction to Microprocessors	3 cr.
CET 1172C	Computer Upgrade & Repair	3 cr.
CET 1174C	Advanced Computer Repair	3 cr.
CET 1556C	Structured Cabling	3 cr.
CET 2113C	Digital Systems Analysis	3 cr.

CET 2152C	Advanced Microprocessors	3 cr.
CET 2939	Computer Engineering Technology Capstone	3 cr.
CGS 1000	Introduction to Computers and Technology	3 cr.
CGS 1550	Introduction to Networking	3 cr.
*EET 1036C	Basic AC and DC	3 cr.
*EET 1083C	Electronics Orientation	3 cr.
EET 1141C	Solid State Devices	3 cr.
MTB 1327	Electronics Math	4 cr.

Select at least 6 credit hours from the following:

CGS 1500	Applied Word Processing	1 cr.
CGS 1510	Spreadsheet Applications I	1 cr.
CGS 1540	Database Management I	1 cr.
CGS 1554	Internet Basics	1 cr.
CGS 1555	Introduction to Internet	3 cr.
COP 1000	Programming Logic	3 cr.
COP 1220	Programming in "C"	3 cr.
COP 1820	Visual BASIC, Beginning	3 cr.
COP 1821	Visual BASIC, Advanced	3 cr.
COP 2221	Advanced "C"	3 cr.
COP 2800	JAVA Programming	3 cr.
COP 2822	CGI Scripting for the Web	3 cr.

* Recommended course(s) for the first semester.

AS/AAS • COMPUTER INFORMATION ADMINISTRATOR

AS.CIA/AAS.CIA (63 Credit Hours)

This program prepares students for jobs in the field of PC support specialist, help desk specialist, microcomputer specialist, software specialist, and information systems specialist. Students who can demonstrate proficiency in CGS 1500, OST 1831, and OST 1832 can substitute an approved three credit hour selected elective course.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II or Social Science General Education	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
	Humanities General Education	3 cr.
	Natural Science or Social Science General Education	3 cr.

Program Required Courses 48 cr.

CET 1172C	Computer Upgrading and Repair	3 cr.
CET 1174C	Advanced Computer Repair	3 cr.
*CGS 1000	Introduction to Computers and Technology	3 cr.
CGS 1550	Introduction to Networking	3 cr.
CGS 1555	Introduction to the Internet	3 cr.
CGS 1577	Presentations Systems	3 cr.
CGS 1761	Computer Operating Systems	3 cr.
CGS 2301	Management Information Systems	3 cr.
CGS 2541	Database Design	3 cr.
CIS 1931	Microcomputer Concepts	3 cr.
CIS 2321	Systems Analysis	3 cr.
CIS 2939	Computer Information Administrator Capstone	3 cr.
CNT 1401	Introduction to Network Security	3 cr.
COP 1000	Programming Logic	3 cr.
COP 1820	Visual BASIC, Beginning	3 cr.

Select at least 3 credit hours from the following:

CEN 1301	Microsoft Windows Server	3 cr.
CEN 1305	Microsoft Windows Implementing and Supporting a Network	3 cr.
CEN 1306	Exchange Server	3 cr.
CEN 1310	Implementing and Supporting MS Windows Site Server	3 cr.
CET 1556C	Structured Cabling	3 cr.
CGS 1160	Desktop Information Management	1 cr.
CGS 1510	Spreadsheet Applications I	1 cr.
CGS 1760	Introduction to UNIX	3 cr.
CGS 1871	Multimedia Authoring I	3 cr.
CGS 2511	Spreadsheet Applications II	1 cr.
CGS 2512	Spreadsheet Applications III	1 cr.
CGS 2763	Unix/Linux Administration I	3 cr.
CGS 2825	Web Site Management	3 cr.
CGS 2874	Multimedia Authoring II	3 cr.

CNT 2405	Advanced Internetworking Security	3 cr.
CNT 2941	Computer Information Internship	3 cr.
COP 1821	Visual Basic, Advanced	3 cr.
COP 2823	Graphics Design for Multimedia/Internet	3 cr.
COP 2826	Advanced Graphics Design for Multimedia/Internet	3 cr.
OST 1142	Keyboarding I	1 cr.
OST 1335	Business Communications	3 cr.
OST 1741	Word Processing I	1 cr.
OST 1813	Desktop Publishing	3 cr.
OST 1825	Desktop Design	3 cr.
OST 1831	Introduction to Windows I	1 cr.
OST 1832	Introduction to Windows II	1 cr.
OST 2742	Word Processing II	1 cr.

* Recommended course(s) for the first semester.

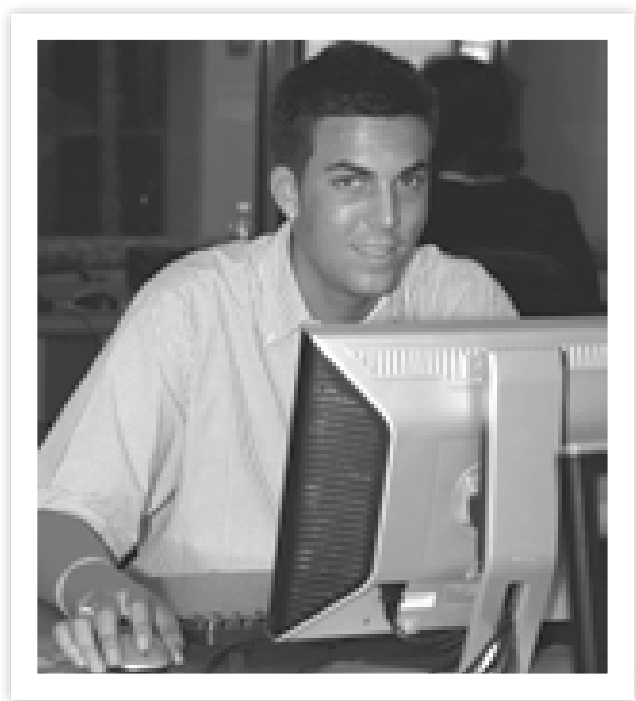
AS/AAS • COMPUTER PROGRAMMING

AS.COP/AAS.COP (63 Credit Hours)

This program prepares students for jobs in the field of computer programmer aide, junior programmer, senior programmer, data manager, programmer analyst, and mid-range computer specialist.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II or Social Science General Education	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
	Humanities General Education	3 cr.
	Social Science General Education	3 cr.



Program Required Courses 48 cr.

*CGS 1000	Introduction to Computers and Technology	3 cr.
CGS 1760	Introduction to UNIX	3 cr.
CGS 1761	Computer Operation Systems	3 cr.
CGS 2301	Management Info. Systems	3 cr.
CGS 2541	Database Design	3 cr.
CIS 2321	Systems Analysis	3 cr.
COP 1000	Programming Logic	3 cr.
COP 1120	COBOL, Beginning	3 cr.
COP 1220	Programming in "C"	3 cr.
COP 1812	Introduction to XML	3 cr.
COP 1820	Visual BASIC, Beginning	3 cr.
COP 2360	Programming in C#	3 cr.
COP 2800	JAVA Programming	3 cr.
COP 2805	JAVA, Advanced	3 cr.
COP 2939	Computer Programming Capstone	3 cr.

Select at least 3 specified elective credits from the following:

CDA 1162	Telecommunications	3 cr.
CGS 1550	Introduction to Networking	3 cr.
CGS 1936	Perl and CGI	3 cr.
CGS 2763	Unix/Linux Administration I	3 cr.
COP 1821	Visual BASIC, Advanced	3 cr.
COP 2121	COBOL, Intermediate	3 cr.
COP 2224	Programming in C++	3 cr.
COP 2344	Shell Scripting	3 cr.
COP 2740	Introduction to Oracle/SQL	3 cr.
COP 2822	Scripting for the Web	3 cr.
COP 2940	Computer Programming Internship	3 cr.

* Recommended course(s) for the first semester.

AS • CRIMINAL JUSTICE TECHNOLOGY

AS.CJT (64 Credit Hours)

The Criminal Justice associate in science degree program (AS to BS) offers students a broad background in the history, philosophy, organization, management and operation of the criminal justice system. Upon completion, this AS degree opens up entry-level, non-sworn (see Note 1) positions in local, state, and federal agencies, i.e. juvenile justice, private security, law enforcement, corrections, probation and parole, detention centers and community-based intervention programs. It can also be the first step toward a career in law.

The AS degree will transfer into similar upper division programs in certain Florida universities and colleges, but students wishing to transfer must accept the responsibility for securing approval in advance from the transfer institution.

For students interested in a two-year degree in criminal justice, this program will prepare them to work in law enforcement in agencies such as police departments, sheriff's offices, correctional institutions, criminal and juvenile courts, crime laboratories or crime scene units dealing with physical evidence and will also help them develop the educational skills needed to advance into and within various law enforcement related fields such as police work and corrections and law.

NOTE 1: Beginning Fall Term 2004, all graduates of this program shall articulate into a criminal justice baccalaureate degree in the designated university program under the provision of Rule 6A-10.024, Articulation Between Universities, Community Colleges, and School Districts.

General Education Requirements 18 cr.

ENC 1101	English Composition I	3 cr.
PHI 1010	Introduction to Philosophy or PHI 1100 Elementary Logic or PHI 1600 Ethics	3 cr.
POS 2041	American Government	3 cr.
PSY 2012	General Psychology	3 cr.
SYG 2000	Introduction to Sociology	3 cr.
	Mathematics General Education	3 cr.

Program Required Courses 46 cr.

**CCJ 1010	Introduction to Criminology	3 cr.
**CCJ 1020	Introduction to Criminal Justice	3 cr.
CCJ 1500	Juvenile Delinquency	3 cr.
CCJ 1935	Seminar on Criminal Justice Issues	3 cr.
CCJ 2910	Directed Research	3 cr.
CCJ 2940	Criminal Justice Internship	3 cr.
CJE 2004	Career Choices in Criminal Justice	1 cr.
CJL 1100	Criminal Law	3 cr.
CJL 1062	Constitutional Law	3 cr.
CJL 2130	Criminal Evidence and Procedure	3 cr.

Select 3 credit hours from the following:

CJC 1000	Introduction to Corrections	3 cr.
CJE 1000	Introduction to Law Enforcement	3 cr.
CJE 1640	Introduction to Criminalistics	3 cr.
CJL 1500	Introduction to the Court System	3 cr.

Select 15 credit hours from the following:

CCJ 2013	Introduction to Victimology	3 cr.
CCJ 2191	Human Behavior in Criminal Justice	3 cr.
CCJ 2610	Introduction to Criminal Typologies	3 cr.
*CJC 1000	Introduction to Corrections	3 cr.
CJC 2162	Probation and Parole	3 cr.
*CJE 1000	Introduction to Law Enforcement	3 cr.
*CJE 1640	Introduction to Criminalistics	3 cr.
CJE 1642C	Introduction to Crime Scene Technology	3 cr.
CJE 1643C	Advanced Crime Scene Technology	3 cr.
CJE 1680	Introduction to Computer Crimes	3 cr.
CJE 2170	Comparative Police and Criminal Justice Systems	3 cr.
CJE 2233	Drug Abuse and Crime	3 cr.
CJE 2300	Police Administration & Organization	3 cr.
CJE 2400	Community Relations	3 cr.
CJL 1070	Legal Rights of Prisoners	3 cr.
*CJL 1500	Introduction to the Court System	3 cr.
CJL 2072	Civil Rights and Liability in Criminal Justice	3 cr.
CJL 2610	Courtroom Presentation of Scientific Evidence	3 cr.
CJT 2100	Criminal Investigation	3 cr.
DSC 1002	Introduction to Terrorism	3 cr.
DSC 1003	Introduction to Homeland Security	3 cr.
DSC 2033	Weapons of Mass Destruction	3 cr.
SCC 1000	Introduction to Security	3 cr.
SCC 1011	Introduction to Private Investigation	3 cr.

*May be taken if not previously chosen from the "Select 3 credit hours from the following" category.

** Recommended course(s) for the first semester.

NOTE 2: Regardless of degree work completed, in order to be a sworn law enforcement, corrections, or probation officer in the State of Florida, candidates must successfully complete a state mandated training academy such as those offered by Hillsborough Community College's Criminal Justice Institute.

NOTE 3: Students who have successfully completed a Florida police or correction academy will be eligible for articulated credit toward this degree. Refer to the Criminal Justice Technology website at www.hccfl.edu/yborcampus/cjt for specific details.

AAS • CRIMINAL JUSTICE TECHNOLOGY

AAS.CJT.OFR (64 Credit Hours)

This program will give law enforcement and corrections officers, as well as law enforcement and corrections academy graduates, a path toward an associate degree. Law enforcement and corrections officers, as well as law enforcement and corrections academy graduates, will be given articulated credit for successfully completing a Florida academy. Students who want articulated credit should check with their academic advisors for more information.

NOTE 1: Regardless of degree work completed, in order to be a sworn law enforcement, corrections, or probation officer in the State of Florida, candidates must successfully complete a state mandated training academy such as those offered by Hillsborough Community College's Criminal Justice Institute.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
PHI 1010	Introduction to Philosophy or PHI 1100 Elementary Logic or PHI 1600 Ethics	3 cr.
	Mathematics General Education	3 cr.

Select 6 credit hours from the following Program Specified General Education Requirements:

POS 2041	American Government	3 cr.
PSY 2012	General Psychology	3 cr.
SYG 2000	Introduction to Sociology	3 cr.

Program Required Course

CJE 2004	Career Choices in Criminal Justice	1 cr.
----------	------------------------------------	-------

Articulated Credit 48 cr.

Students who have successfully completed a Florida police or correction academy or both will be eligible for between 27 and 39 articulated credits toward this degree. Refer to the Criminal Justice Technology website at www.hccfl.edu/yborcampus/cjt for specific details.

The balance of the 48 articulated credits must be chosen from the following list of courses:

Group A: Select 6 credit hours from the following:

CCJ 1010	Introduction to Criminology	3 cr.
CCJ 1020	Introduction to Criminal Justice	3 cr.
CCJ 1500	Juvenile Delinquency	3 cr.
CJL 1062	Constitutional Law	3 cr.
CJL 1100	Criminal Law	3 cr.
CJL 2130	Criminal Evidence and Procedures	3 cr.



Group B: Select remaining credit hours from the following or any courses in Group A not already selected.

CCJ 1935	Seminar on Justice Issues	3 cr.
CCJ 2013	Introduction to Victimology	3 cr.
CCJ 2191	Human Behavior in Criminal Justice	3 cr.
CCJ 2610	Introduction to Criminal Typologies	3 cr.
CCJ 2910	Directed Research	3 cr.
CCJ 2940	Criminal Justice Internship	3 cr.
CJC 1000	Introduction to Corrections	3 cr.
CJC 2162	Probation and Parole	3 cr.
CJE 1000	Introduction to Law Enforcement	3 cr.
CJE 1640	Introduction to Criminalistics	3 cr.
CJE 1642C	Introduction to Crime Scene Technology	3 cr.
CJE 1643C	Advanced Crime Scene Technology	3 cr.
CJE 1680	Introduction to Computer Crimes	3 cr.
CJE 2170	Comparative Police and Criminal Justice Systems	3 cr.
CJE 2233	Drug Abuse and Crime	3 cr.
CJE 2300	Police Administration and Organization	3 cr.
CJE 2400	Community Relations	3 cr.
CJL 1070	Legal Rights of Prisoners	3 cr.
CJL 1500	Introduction to the Court System	3 cr.
CJL 2072	Civil Rights and Liability in Criminal Justice	3 cr.
CJL 2610	Courtroom Presentation of Scientific Evidence	3 cr.
CJT 2100	Criminal Investigation	3 cr.
DSC 1002	Introduction to Terrorism	3 cr.
DSC 1003	Introduction to Homeland Security	3 cr.
DSC 2033	Weapons of Mass Destruction	3 cr.
SCC 1000	Introduction to Security	3 cr.
SCC 1011	Introduction to Private Investigation	3 cr.

AS/AAS • CULINARY MANAGEMENT

AS.CUL.CULA/AAS.CUL.CULA (64 Credit Hours)

This program will provide students with the skills necessary for employment as a restaurant cook or chef.

The Culinary Management program and courses are accredited by the American Culinary Federation Foundation's Accrediting Commission at 180 Center Place Way, St. Augustine, Florida 32095.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
BSC 1005C	Biological Foundations I	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
	Humanities General Education	3 cr.
PSY 2012	General Psychology	3 cr.

Program Required Courses 49 cr.

CGS 1107	Introduction to Computers	1 cr.
*FSS 1223	Food Preparation for Managers	4 cr.
FSS 1246C	Food Specialty I (Baking)	3 cr.
*FSS 1248C	Food Specialty II (Garde Manger I)	3 cr.
FSS 1249C	Food Specialty III (Garde Manger II)	3 cr.
FSS 1500	Food and Beverage Control	3 cr.
FSS 1941	Food Practicum I	2 cr.

FSS 1942	Food Practicum II	2 cr.
FSS 1943	Food Practicum III	2 cr.
FSS 1944	Food Practicum IV	2 cr.
FSS 1945	Food Practicum V	2 cr.
FSS 1946	Food Practicum VI	2 cr.
*FSS 2110	Food Plan and Menu Preparation	3 cr.
FSS 2120	Food Purchasing and Storage	3 cr.
FSS 2271	Beverage Management Service	3 cr.
HFT 2210	Management of Hospitality Personnel	3 cr.
HFT 2840	Maitre d' and Dining Room Service	3 cr.
HUN 2201	Fundamentals of Human Nutrition	3 cr.
SPC 1006	Speech Improvement Elective	1 cr.

* Recommended course(s) for the first semester.



AS • DIETETIC TECHNICIAN

AS.DIET.TECH (64 credit hours)

The Dietetic Technician program prepares students to function at the generalist level of dietetic care under the supervision of a registered dietician. Duties include supervision of employees, menu planning, diet instruction, food purchasing and supervision of food production. The multi-disciplinary training (culinary, hospitality and dietetics) will enable graduates to use culinary arts and food service management skills in a variety of traditional and non-traditional job settings.

General Education Requirements 15 cr.

BSC 1092C	Human Biology	3 cr.
ENC 1101	English Composition I	3 cr.
MAC 1105	College Algebra	3 cr.
PSY 2012	General Psychology	3 cr.
	Humanities General Education	3 cr.

Program Required Courses 49 cr.

APA 1321	Hospitality Accounting	3 cr.
CGS 1000	Introduction to Computers and Technology	3 cr.
DIE 2000	Introduction to Dietetics	3 cr.
DIE 2270	Clinical Nutrition I	3 cr.
DIE 2271	Clinical Nutrition II	3 cr.
DIE 2401	Nutrition Education and Interviewing	3 cr.
DIE 2419	Nutrition Education Practicum	2 cr.
DIE 2533	Clinical Practicum	2 cr.
FOS 1201	Sanitation and Safety Management	2 cr.
FSS 1223	Food Preparation for Managers	4 cr.
FSS 1941	Food Practicum I	2 cr.
FSS 2110	Food Plans and Menu Preparation	3 cr.
FSS 2120	Food Purchase and Storage	3 cr.
HFT 2210	Management of Hospitality Personnel	3 cr.
HSC 1531	Medical Terminology	3 cr.
HUN 2201	Fundamentals of Human Nutrition	3 cr.
MCB 1060	Food Microbiology	3 cr.
MCB 1060L	Food Microbiology Laboratory	1 cr.

AS/AAS • DIGITAL MEDIA/MULTIMEDIA TECHNOLOGY

AS.MMT/AAS.MMT (64 Credit Hours)

This program prepares students for jobs such as desktop publisher, production designer, electronic publisher, illustrator, multimedia specialist, multimedia presentation developer, interface designer, computer graphic designer, and project manager. Students who can demonstrate proficiency in CGS 1500, OST 1831, and OST 1832 can substitute an approved three credit hour specified elective course.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II or Social Science General Education	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
	Humanities General Education	3 cr.
	Social Science General Education	3 cr.

Program Required Courses 49 cr.

CAP 2939	Digital Media/Multimedia Technology Capstone	3 cr.
*CGS 1000	Introduction Computers and Technology	3 cr.
CGS 1500	Applied Word Processing or OST 1741 Word Processing I	1 cr.
*CGS 1555	Introduction to the Internet	3 cr.
CGS 1577	Presentation Systems	3 cr.
CGS 1871	Multimedia Authoring I	3 cr.
CGS 2820	Web Authoring - HTML	3 cr.

CGS 2874	Multimedia Authoring II	3 cr.
CGS 2876	Digital Audio/Video Design	3 cr.
COP 1000	Programming Logic	3 cr.
COP 2822	Scripting for the Web	3 cr.
COP 2823	Graphics Design for Multimedia/Internet	3 cr.
COP 2826	Advanced Graphics Design for Multimedia/Internet	3 cr.
OST 1813	Desktop Publishing	3 cr.
OST 1825	Desktop Design	3 cr.
OST 1831	Windows I	1 cr.

Select at least 5 specified elective credits from the following:

CAP 1023	Introduction to Game Development	3 cr.
CAP 2023	Game Design and Development	3 cr.
CAP 2024	Advanced Game Design and Development	3 cr.
CGS 1103	Project Management	3 cr.
CGS 1520	Business Graphics I	1 cr.
CGS 1521	Introduction to Computers Drawing/Painting	1 cr.
CGS 1760	Introduction to UNIX	3 cr.
CGS 2069	Electronic Commerce	3 cr.
CGS 2509	Introduction to Adobe Acrobat	1 cr.
CGS 2877	Digital Animation Design	3 cr.
OST 1335	Business Communications	3 cr.
OST 1142	Keyboarding I	1 cr.
OST 1832	Introduction to Windows II	1 cr.

* Recommended course(s) for the first semester.

AS/AAS • DIGITAL TELEVISION AND MEDIA PRODUCTION

AS.DIG.RTV/AAS.DIG.RTV (64 Credit Hours)

This hands-on, skills-based program will prepare students for careers in television, radio, and media production for the Internet. Students will learn to produce music videos, talk shows, sports programs, music shows, concerts, and news shows for television, radio and the Internet using professional video cameras, high-quality nonlinear video editing equipment, and professional audio editing software. Students can gain valuable experience by broadcasting on the college's radio station and the educational TV cable channel.

General Education Requirements 18 cr.

ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or MGF 1106 Mathematics for Liberal Arts I (transfer)	3 cr.
PSY 2012	General Psychology or SYG 2000 Introduction to Sociology	3 cr.
SPC 1600	Public Speaking	3 cr.
	Humanities General Education	3 cr.

Program Required Courses 46 cr.

*CGS 1000	Introduction to Computers and Technology	3 cr.
CGS 1871	Multimedia Authoring I	3 cr.
CGS 2877	Digital Animation Design	3 cr.
COP 2823	Graphics Design for Multimedia/Internet	3 cr.
*FIL 2931	Careers in Film and Video	1 cr.
RTV 1245	Electronic Field Production	3 cr.
RTV 1941	Radio/TV Internship I	3 cr.
*RTV 2000	Introduction to Broadcasting	3 cr.
RTV 2201	Broadcasting Techniques	3 cr.
RTV 2242	Advanced Television Studio Production	3 cr.
RTV 2246	Advanced Electronic Field Production	3 cr.
RTV 2270	Radio Production and Programming	3 cr.
RTV 2300	Broadcast News	3 cr.
RTV 2460	Broadcast Practicum	3 cr.
RTV 2942	Radio/TV Internship II	3 cr.
VIC 1202	Film and TV Graphics	3 cr.

* Recommended course(s) for the first semester.



AS/AAS • EARLY CHILDHOOD MANAGEMENT

AS.CHILD/AAS.CHILD (63 Credit Hours)

This program will prepare students for a variety of careers in the early childhood area and will give students the competencies and practical experience needed for the Child Development Associate Equivalency (CDA-E) for the State of Florida. The course work focuses on the development, care, guidance and education of young children.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
PSY 2012	General Psychology	3 cr.
SYG 2000	Introduction to Sociology	3 cr.
	Humanities General Education	3 cr.

Program Required Courses 48 cr.

ACG 2021	Financial Accounting or APA 111 Basic Accounting	3 cr.
CGS 1107	Introduction to Computers	1 cr.
DEP 2102	Child Development	3 cr.
*EDF 1005	Introduction to Education	3 cr.
*EEC 1300	Planning the Early Childhood Program	3 cr.
EEC 1308	Enhancing Intellectual Development in the Early Childhood Setting	3 cr.
EEC 1311	Crafts in the Early Childhood Setting	3 cr.
EEC 1401	The Family and Early Childhood Education	3 cr.
*EEC 1521	Operation of Early Childhood Center - Management	3 cr.
EEC 1721	Enhancing Physical Development in the Early Childhood Setting	3 cr.
EEC 1941	Child Care Practicum I	3 cr.
EEC 1943	Child Care Practicum II	3 cr.
EEC 2270	Meeting the Special Needs of Children in Groups	3 cr.
EEC 2271	Children with Special Needs	3 cr.
OST 1335	Business Communications	3 cr.
SBM 2000	Small Business Management	3 cr.
SPC 1006	Speech Improvement Elective	1 cr.

* Recommended course(s) for the first semester.

In accordance with the State of Florida Statewide Articulation Manual, a student who receives a National Child Development Associate Credential, Florida Child Care Professional Credential or equivalent Staff Credential may articulate nine credits (EEC 1300, EEC 1311 and EEC 1941) toward the AS/AAS degree in Early Childhood Management.

FCCPC • Florida Child Care Professional Credential

(15 Credit Hours)

Hillsborough Community College's Child Care Management Program curriculum has been approved by the Florida Department of Children and Families as being equivalent to the FCCPC certificate. If students want to apply for the equivalency certificate, they should contact the program faculty.

In addition to the above avenue for acquiring the FCCPC equivalency, students may want to complete the following HCC child care management courses and then apply for the National CDA credential.

Required Courses

EEC 1300	Planning the Early Childhood Program	3 cr.
EEC 1308	Enhancing Intellectual Development in Early Childhood	3 cr.
EEC 1521	Operation of the Early Childhood Center: Management	3 cr.
EEC 1941	Child Care Practicum I*	3 cr.
EEC 1943	Child Care Practicum II*	3 cr.

*This course will require 240 clock hours of work with children in a licensed child care setting, 20 hours of which must be completed at HCC's Child Development Lab School. Hours are completed during the term the student is registered for practicum. Successful completion of these courses will fulfill the FCCPC requirement of 480 clock hours.

NOTE: Coursework may be applied to the two-year AAS degree Early Childhood Management Program.



AS/AAS • ELECTRONICS ENGINEERING TECHNOLOGY

AS.EET.UNIV/AAS.EET (68 Credit Hours)

AS • Electronics Engineering Technology

AS.EET.UNIV

This program will prepare a student for an entry-level position as an electronics engineering technician. Technicians assist engineers in planning, research, development and design.

The course work focuses on the skills needed for troubleshooting electronic equipment, performing operations, calculations, testing and reporting.

NOTE: Beginning Fall Term 2000, all graduates of this program shall articulate into an Electronics Engineering Technology baccalaureate degree in the designated university program under the provision of Rule 6A-10.024, Articulation Between Universities, Community Colleges, and School Districts.

General Education Requirements 25 cr.

ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II	3 cr.
MAC 1105	College Algebra	3 cr.
PHY 1053	General Physics I	3 cr.
PHY 1053L	General Physics I Laboratory	1 cr.
SPC 1600	Public Speaking	3 cr.
	Humanities General Education	3 cr.
	Social Science General Education	6 cr.

Program Required Courses 43 cr.

*CET 1114C	Basic Digital Systems	3 cr.
CET 1122C	Introduction to Microprocessors	3 cr.
CET 2113C	Digital Systems Analysis	3 cr.
CGS 1000	Introduction to Computers and Technology	3 cr.
COP 1000	Programming Logic	3 cr.
*EET 1036C	Basic AC and DC	3 cr.
EET 1037C	Circuit Analysis	3 cr.
*EET 1083C	Electronics Orientation	3 cr.
EET 1141C	Solid State Devices	3 cr.
EET 1142C	Solid State Circuits	3 cr.
EET 2155C	Linear Integrated Circuits	3 cr.
EET 2939	Electronics Engineering Technology Capstone	3 cr.
MAC 1114	Trigonometry	3 cr.



Select 1 specified elective credit from the following (Group A):

CET 1172C	Computer Upgrading and Repair	3 cr.
CET 1174C	Advanced Computer Repair	3 cr.
CET 1556C	Structured Cabling	3 cr.
CET 2152C	Advanced Microprocessors	3 cr.
CET 2335C	Microcomputer Systems	3 cr.
CGS 1500	Applied Word Processing	1 cr.
CGS 1510	Spreadsheet Applications	1 cr.
CGS 1520	Business Graphics I	1 cr.
CGS 1540	Database Management	1 cr.
CGS 1550	Introduction to Networking	3 cr.
CGS 1554	Internet Basics	1 cr.
COP 1220	Programming in "C"	3 cr.
ECO 2013	Principles of Macroeconomics	3 cr.
EET 1525C	Industrial Controls I	3 cr.
EET 2215L	Electronic Instruments	3 cr.
EET 2326C	Communications Systems	3 cr.
EET 2526C	Industrial Controls II	3 cr.
EST 1436C	Biomedical Electronics Systems I	3 cr.
EST 2438C	Biomedical Electronic Systems II	3 cr.
OST 1142	Keyboarding I	1 cr.

Select 3 specified elective credits from the following (Group B):

COP 1120	COBOL, Beginning	3 cr.
COP 1820	Visual BASIC, Beginning	3 cr.
COP 1821	Visual BASIC, Advance	3 cr.
COP 2800	JAVA Programming	3 cr.

* Recommended course(s) for the first semester.

AAS • Electronics Engineering Technology

AAS.EET

General Education Requirements 16 cr.

ENC 1101	English Composition I	3 cr.
MGF 1119	Introductory Mathematics w/ Applications	3 cr.
PSC 1515	Energy and the Environment	3 cr.
PSC 1515L	Energy and the Environment Laboratory	1 cr.
	Humanities General Education	3 cr.
	Social Science General Education	3 cr.

Program Required Courses 52 cr.

*CET 1114C	Basic Digital Systems	3 cr.
CET 1122C	Introduction to Microprocessors	3 cr.
CET 2113C	Digital Systems Analysis	3 cr.
CGS 1107	Introduction to Computers	1 cr.
COP 1000	Programming Logic	3 cr.
*EET 1036C	Basic AC and DC	3 cr.
EET 1037C	Circuit Analysis	3 cr.
*EET 1083C	Electronic Orientation	3 cr.
EET 1141C	Solid State Devices	3 cr.
EET 1142C	Solid State Circuits	3 cr.
EET 2155C	Linear Integrated Circuits	3 cr.
EET 2215L	Electronics Instruments	3 cr.
EET 2326C	Communications Systems I	3 cr.
EET 2939	Electronics Engineering Technology Capstone	3 cr.
MTB 1327	Electronics Mathematics	4 cr.

Select 5 specified elective credits from the following (Group A):

CET 1172C	Computer Upgrading and Repair	3 cr.
CET 1174C	Advanced Computer Repair	3 cr.
CET 1556C	Structured Cabling	3 cr.
CET 2152C	Advanced Microprocessors	3 cr.
CET 2335C	Microcomputer Systems	3 cr.
CGS 1500	Applied Word Processing	1 cr.
CGS 1510	Spreadsheet Applications	1 cr.
CGS 1520	Business Graphics I	1 cr.
CGS 1540	Database Management	1 cr.
CGS 1554	Internet Basics	1 cr.
CGS 1550	Introduction to Networking	3 cr.
COP 1220	Programming in "C"	3 cr.
ECO 2013	Principles of Macroeconomics	3 cr.
EET 1525C	Industrial Controls I	3 cr.
EET 2215L	Electronic Instruments	3 cr.
EET 2326C	Communications Systems	3 cr.
EET 2526C	Industrial Controls II	3 cr.
EST 1436C	Biomedical Electronics Systems I	3 cr.
EST 2438C	Biomedical Electronic Systems II	3 cr.
OST 1142	Keyboarding I	1 cr.

Select 3 specified elective credits from the following (Group B):

COP 1120	COBOL, Beginning	3 cr.
COP 1820	Visual BASIC, Beginning	3 cr.
COP 1821	Visual BASIC, Advance	3 cr.
COP 2800	JAVA Programming	3 cr.

* Recommended course(s) for the first semester.

AS/AAS • ENVIRONMENTAL SCIENCE TECHNOLOGY

AS.EVR.LAB/AS.EVR.ETEC/AAS.EVR.AWT/AAS.EVR.LAB/AAS.EVR.ETEC (64 Credit Hours)

This program will prepare students for positions as environmental pollution control technicians or environmental technicians. The program curriculum will prepare students to conduct environmental surveys; conduct investigations and evaluations of noise, air, and water conditions for compliance with public laws and regulations; or to effectively manage natural resources.

AAS • Advanced Water Treatment

AAS.EVR.AWT

This program will prepare students with the skills necessary to enter the field of water technologies and resource management.

General Education Requirements 15 cr.

BSC 1005C	Biological Foundations I	3 cr.
ENC 1101	English Composition I	3 cr.
MGF 1106	Mathematics for Liberal Arts I	3 cr.
	Humanities General Education	3 cr.
	Social or Behavioral Science General Education	3 cr.

Program Required Courses 49 cr.

EVS 1001	Introduction to Environmental Science	3 cr.
EVS 1181	Conventional and Pre-Treatment Water Technologies	3 cr.
EVS 1183	Introduction to Water Treatment Systems	3 cr.
EVS 1185	Membrane Technologies I	3 cr.
EVS 1186	Membrane Technologies II	3 cr.
EVS 1190	Water Treatment Plant Equipment	3 cr.
EVS 2180	Advanced Membrane Monitoring	3 cr.
EVS 2182	High Purity Water Technologies	3 cr.
EVS 2184	Ion Exchange Technology	3 cr.
EVS 2187	Membrane Unit Monitoring and Troubleshooting	3 cr.
EVS 2188	Pre-Treatment Troubleshooting	3 cr.
EVS 2179	Water Analysis and Monitoring	3 cr.
EVS 2894C	Environmental Sampling and Analysis II	5 cr.
EVS 2895C	Environmental Sampling and Analysis III	5 cr.
EVS 2939	Water Treatment Capstone Course	3 cr.

AS/AAS • Environmental Technician

AS.EVR.ETEC/AAS.EVR.ETEC

General Education Requirements		19 cr.
ENC 1101	English Composition I	3 cr.
GLY 1010	Physical Geology	3 cr.
GLY 1010L	Physical Geology Laboratory	1 cr.
MET 2010C	Meteorology	3 cr.
	Mathematics General Education	3 cr.
	Humanities General Education	3 cr.
	Social or Behavioral Science General Education	3 cr.

Program Required Courses		45 cr.
BSC 1005C	Biological Foundations I	3 cr.
CGS 1000	Introduction to Computers and Technology	3 cr.
CHM 1025	Modern Chemistry	3 cr.
CHM 1025L	Modern Chemistry Laboratory	1 cr.
EVS 1001	Introduction to Environmental Science	3 cr.
EVS 2893C	Environmental Sampling & Analysis I	5 cr.
EVS 2894C	Environmental Sampling & Analysis II	5 cr.
EVS 2895C	Environmental Sampling & Analysis III	5 cr.
EVS 2942L	Environmental Technology Practicum	3 cr.
SPC 1006	Speech Improvement	1 cr.
	Specified Electives	13 cr.

Select 13 specified elective credits from the following:

Air Monitoring

EVS 2791	Ambient and Source Sampling	4 cr.
EVS 2793	Sources and Effects of Air Pollution	4 cr.

Water Emphasis

EVS 1026	Chemistry and Biology of Natural Waters	4 cr.
EVS 2005C	Treatment of Water and Wastewater	4 cr.
EVS 2891	Hydrology and Quality of Water Resources	4 cr.

Geographic Information and Global Positioning Systems

EVR 1041	Natural Resource Management w/Applications in GIS	4 cr.
EVR 2040	Advanced GIS w/Environmental Applications	4 cr.
EVS 1042	Water Resources w/Applications in GIS	4 cr.
GIS 1041	Survey of Geographic Information Systems and Global Positioning Systems	1 cr.
GIS 2040	Fundamentals Geographic Information Systems	3 cr.
SUR 2533	Fundamentals of Global Positioning Systems	3 cr.

Natural Resource Management

EVR 1328	Natural Resource Conservation and Ecology	3 cr.
FNR 1001	Natural Resource Management	3 cr.
ORH 1523	Native Upland Plants	2 cr.
ORH 1524	Native Wetland Plants	2 cr.



AS/AAS • Laboratory Technician

AS.EVR.LAB/AAS.EVR.LAB

General Education Requirements		20 cr.
ENC 1101	English Composition I	3 cr.
BSC 1010	Biological Science I	3 cr.
BSC 1010L	Biological Science I Laboratory	1 cr.
CHM 1045	College Chemistry I	3 cr.
CHM 1045L	College Chemistry I Laboratory	1 cr.
	Mathematics General Education	3 cr.
	Humanities General Education	3 cr.
	Social or Behavioral Science General Education	3 cr.

Program Required Courses		44 cr.
CGS 1000	Introduction to Computers and Technology	3 cr.
CHM 1025	Modern Chemistry	3 cr.
CHM 1025L	Modern Chemistry Laboratory	1 cr.
CHM 1046	College Chemistry II	3 cr.
CHM 1046L	College Chemistry II Laboratory	1 cr.
CHM 2120C	Analytical Chemistry	4 cr.
CHM 2132C	Modern Chemical Instrumentation	4 cr.
EVS 2893C	Environmental Sampling and Analysis I	5 cr.
EVS 2894C	Environmental Sampling and Analysis II	5 cr.
EVS 2895C	Environmental Sampling and analysis III	5 cr.
EVS 2942L	Environmental Technology Practicum	3 cr.
SPC 1006	Speech Improvement	1 cr.
	Specified Electives	6 cr.

Select 6 credit hours of specified electives from the following:

ETI 1181	Quality Systems and Work Place Dynamics	2 cr.
ETI 1701	Process Safety and Hazardous Materials	2 cr.
ETI 1720	Occupational Safety and Health	3 cr.
EVS 1026	Chemistry and Biology of Natural Waters	4 cr.
EVS 1893	Comparative Sampling and Analysis Methods	3 cr.
MCB 1060	Food Microbiology	3 cr.
MCB 1060L	Food Microbiology Laboratory	1 cr.

AS/AAS • FIRE SCIENCE TECHNOLOGY

AS.FIRE.UNIV/AAS.FIRE (60 Credit Hours)

This program will prepare students for jobs as fire science technicians, fire officers or fire safety inspectors, fire assistants, safety inspectors, building inspectors or jobs in fire insurance sales.

NOTE: All graduates of this AS degree program shall be granted admission into the Fire Science Management baccalaureate degree program at Northwood University.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
PSY 2012	General Psychology	3 cr.
SYG 2000	Introduction to Sociology	3 cr.
	Humanities General Education	3 cr.

Program Required Courses 45 cr.

CGS 1107	Introduction to Computers	1 cr.
*FFP 1000	Introduction to Fire Science	3 cr.
*FFP 1506	Fire Prevention and Investigation	3 cr.
FFP 1710	Company Officer	3 cr.
FFP 1810	Fire Fighting Tactics and Strategy I	3 cr.
FFP 2120	Fire Service Building Construction	3 cr.

FFP 2401	Hazardous Materials I	3 cr.
FFP 2402	Hazardous Materials II	3 cr.
FFP 2490C	Chemistry of Hazardous Materials	4 cr.
FFP 2510	Codes and Standards	3 cr.
FFP 2521	Construction Documents and Plans Review	3 cr.
FFP 2540	Private Fire Protection Systems	3 cr.
FFP 2604	Cause and Origin	3 cr.
FFP 2740	Fire Service Course Delivery	3 cr.
FFP 2811	Fire Fighting Tactics and Strategy II	3 cr.
SPC 1006	Speech Improvement	1 cr.

* Recommended course(s) for the first semester.

NOTE 1: The following classes are required for Florida Bureau of Fire Standards and Training Certification as a Fire Officer: FFP 1710, FFP 1506, FFP 1810, FFP 2740, FFP 2540, FFP 2401, and FFP 2402.

NOTE 2: The following classes are required for Florida Bureau of Fire Standards and Training Certification as a Municipal Fire Safety Inspector: FFP 1506, FFP 2120, FFP 2540, FFP 2521, and FFP 2510.

AS • HOSPITALITY AND TOURISM MANAGEMENT

AS.HFT.RESH (64 Credit Hours)

This program will prepare students for supervisory jobs in the hospitality industry as managers, motel managers, a recreation establishment manager or resort manager.

NOTE: Beginning Fall Term 2000, all graduates of this program shall articulate into a Hospitality Administration/Management baccalaureate degree (in those programs not accredited by AACSB) in the designated university program under the provision of Rule 6A-10.024, Articulation between Universities, Community Colleges, and School Districts.

General Education Requirements 18 cr.

ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
PSY 2012	General Psychology	3 cr.
SYG 2000	Introduction to Sociology	3 cr.
	Humanities General Education	3 cr.

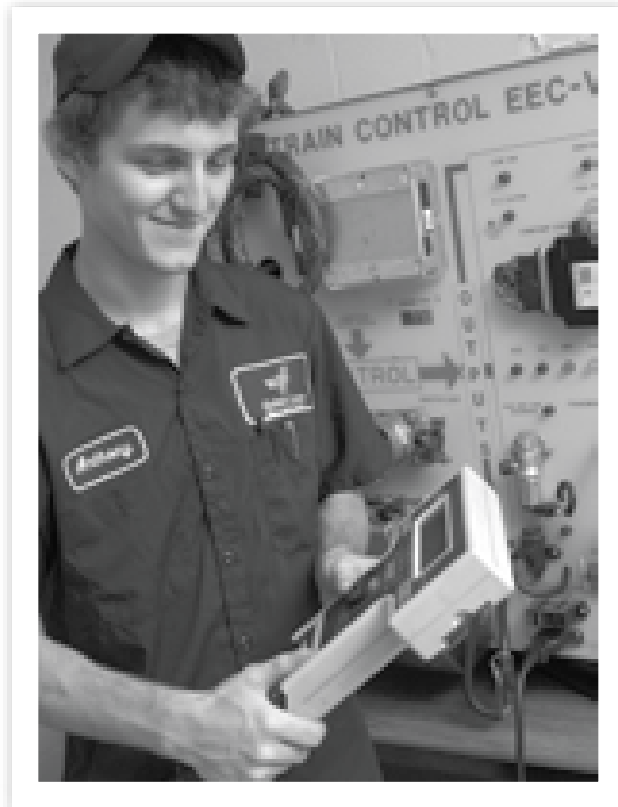
Program Required Courses 46 cr.

ACG 2021	Financial Accounting or APA 1111, Basic Accounting	3 cr.
APA 1321	Hospitality Accounting	3 cr.
FSS 1223	Food Preparation for Managers	4 cr.
FSS 1500	Food and Beverage Control	3 cr.
FSS 2110	Food Plans and Menu Preparation	3 cr.
FSS 2120	Food Purchasing and Storage	3 cr.
FSS 2271	Beverage Management Service	3 cr.
HFT 1000	Lodging Management	3 cr.
HFT 1410	Front Desk Procedures	3 cr.
HFT 2210	Management of Hospitality Personnel	3 cr.
HFT 2530	Merchandising and Advertising in the Hospitality Field	3 cr.
HFT 2600	Hospitality Law	3 cr.
HFT 2750	Convention Management and Service	3 cr.
HFT 2840	Maitre d' and Dining Room Service	3 cr.
HFT 2941	Hospitality Management Internship Electives	2 cr.
		1 cr.

AAS • INDUSTRIAL MANAGEMENT TECHNOLOGY

AAS.INDM.ARR/AAS.INDM.BCV/AAS.INDM.FORD/AAS.INDM.PMT/AAS.INDM.TECO

(60 Credit Hours)



This program will prepare students for jobs as industrial managers and for advancement in various technical fields. Students must be enrolled in the Ford ASSET program at Brewster Technical Center, successfully completed one of the various Tampa Electric Company training programs that have been articulated with the program (lineman, field engineering, substation electrician, plant electrician and controls analyst) or an HCC PSAV Auto Collision Repair or apprenticeship program.

Articulated Credit and Electives 33 cr.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
MGF 1119	Introductory Mathematics w/Applications	3 cr.
PHI 1600	Ethics	3 cr.
PSY 2012	General Psychology	3 cr.
SPC 1600	Public Speaking	3 cr.

Program Required Courses 12 cr.

CGS 1000	Introduction to Computers and Technology	3 cr.
MAN 1021	Principles of Management	3 cr.
MAR 1011	Principles of Marketing	3 cr.
SBM 2000	Small Business Management	3 cr.

AS/AAS • INFORMATION TECHNOLOGY SECURITY

AS.CIS.SECURITY/AAS.CIS.SECURITY (63 Credit Hours)

This program prepares students for employment as information technology security professionals assisting business and industry in developing and implementing strategies to defend company e-business infrastructure and data assets against security attacks.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II or Social Science Mathematics General Education	3 cr.
	Humanities General Education	3 cr.
	Social Science General Education	3 cr.

Program Required Courses 48 cr.

CET 1172C	Computer Upgrading and Repair	3 cr.
CGS 1000	Introduction to Computers and Technology	3 cr.
CGS 1760	Introduction to Unix	3 cr.
CGS 1550	Introduction to Networking	3 cr.
CGS 2091	Information Technology Ethical and Legal Issues	3 cr.
CGS 2763	Unix/Linux Administration I	3 cr.

CGS 2764	Unix/Linux Administration II	3 cr.
CIS 2352C	Ethical Hacking I	3 cr.
CIS 2353	Security Management and Computer Auditing	3 cr.
CIS 2359C	Ethical Hacking II	3 cr.
CIS 2381C	Computer Forensics and Incident Response	3 cr.
CIS 2945	Information Technology Security Capstone	3 cr.
CNT 1401	Introduction to Network Security	3 cr.
CTS 2310	Windows Security	3 cr.
CTS 2311	Unix/Linux Security	3 cr.
CTS 2321	Unix/Linux Networking	3 cr.

AS/AAS • INTERNET SERVICES TECHNOLOGY

AS.WEB.TECH.OPT1/AS.WEB.TECH.OPT2/AAS.WEB.TECH.OPT1/AAS.WEB.TECH.OPT2

(63 Credit Hours)

AS/AAS • Web Designer

AS.WEB.TECH.OPT1/AAS.WEB.TECH.OPT1

This program prepares students for internet-related jobs such as web designer, site designer, and internet architect.

General Education Requirements		15 cr.
ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II or Social Science General Education	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
	Humanities General Education	3 cr.
	Social Science General Education	3 cr.

Program Required Courses 48 cr.

CGS 1000	Introduction to Computers and Technology	3 cr.
CGS 1103	Project Management	3 cr.
CGS 1555	Introduction to the Internet	3 cr.
CGS 1577	Presentations Systems	3 cr.
CGS 1871	Multimedia Authoring I	3 cr.
CGS 2509	Introduction to Adobe Acrobat	1 cr.
CGS 2541	Database Design	3 cr.
CGS 2820	Web Authoring - HTML	3 cr.
CGS 2822	Web Site Creation	3 cr.
CGS 2874	Multimedia Authoring II	3 cr.
CGS 2876	Digital Audio/Video Design	3 cr.
CGS 2939	Internet Services Technology Capstone	3 cr.
COP 2823	Graphics Design for Multimedia/Internet	3 cr.
COP 2826	Advanced Graphics Design	3 cr.
OST 1813	Desktop Publishing	3 cr.
OST 1825	Desktop Designer	3 cr.

Select at least 2 specified elective credit hours from the following:

CGS 1760	Introduction to Unix	3 cr.
CGS 2301	Management Information Systems	3 cr.
CGS 2940	Web Technology Internship	3 cr.
OST 1142	Keyboarding I	1 cr.
OST 1335	Business Communications	3 cr.

AS/AAS • Web Developer

AS.WEB.TECH.OPT2/AAS.WEB.TECH.OPT2

This program prepares students for internet-related jobs such as webmaster, web developer, site developer and internet programmer.

General Education Requirements		15 cr.
ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II or Social Science General Education	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
	Humanities General Education	3 cr.
	Social Science General Education	3 cr.

Program Required Courses 48 cr.

*CGS 1000	Introduction to Computers and Technology	3 cr.
*CGS 1555	Introduction to the Internet	3 cr.
CGS 1760	Introduction to Unix	3 cr.
CGS 1936	Perl & CGI	3 cr.
CGS 2509	Introduction to Adobe Acrobat	1 cr.
CGS 2541	Database Design	3 cr.
CGS 2545	Introduction to Web Databases	3 cr.
CGS 2763	Unix/Linux Administration I	3 cr.
CGS 2820	Web Authoring - HTML	3 cr.
CGS 2822	Web Site Creation	3 cr.
CGS 2823	Introduction to Active Server Pages	3 cr.
CGS 2825	Web Site Management	3 cr.
CGS 2939	Internet Services Technology Capstone	3 cr.
COP 1000	Programming Logic	3 cr.
COP 2800	JAVA Programming	3 cr.
COP 2822	Scripting for the Web	3 cr.

Select at least 2 specified elective credit hour from the following:

CGS 1103	Project Management	3 cr.
COP 1812	Introduction to XML Authoring	3 cr.
COP 2805	JAVA Advanced	3 cr.
OST 1142	Keyboarding I	1 cr.
OST 1143	Keyboarding II	1 cr.

* Recommended course(s) for the first semester.

AS/AAS • LANDSCAPE AND HORTICULTURE TECHNOLOGY

AS.HORT/AS.LAND/AAS.HORT/AAS.LAND (64 Credit Hours)

The program will provide students with theory and practical learning activities that will prepare them for the job market as well as for academic studies in horticulture. The curriculum is designed to prepare students in the areas of plant propagation, soil sampling, irrigation and water management, plant physiology, plant identification, pest management, landscape and horticultural management strategies and math and chemistry regularly used in horticultural practices. The program will prepare students for employment in the green industry to include technicians, supervisors, and superintendents of nurseries, greenhouse operations, parks, or landscape maintenance.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
MAC 1105	College Algebra (transfer) or MGF 1106, Mathematics for Liberal Arts (non-transfer)	3 cr.
BSC 1005C	Biological Foundations I	3 cr.
	Humanities General Education	3 cr.
	Social Science General Education	3 cr.

NOTE: Students transferring to a university should take BSC 1010, BSC 1010L and IDS 1152C.

AS/AAS • Horticulture

AS.HORT/AAS.HORT

Program Required Courses 49 cr.

AEB 1949	Co-op Agriculture/Business	3 cr.
BOT 1000	Plant Physiology and Growth	3 cr.
HOS 1016	Introduction to Horticulture Mathematics and Chemistry	3 cr.
HOS 1010	Horticultural Science	3 cr.
IPM 1011	Plant Pests	3 cr.
IPM 1011L	Plant Pests Laboratory	1 cr.
LDE 1310	Irrigation and Water Management	3 cr.
ORH 1510	Plant Identification 1	3 cr.
SOS 1102	Soils and Fertilizers	3 cr.
	Specialty Area Electives	24 cr.

AS/AAS • Landscape

AS.LAND/AAS.LAND

Program Required Courses

AEB 1949	Co-op Agriculture/Business	3 cr.
BOT 1000	Plant Physiology and Growth	3 cr.
HOS 1010	Horticultural Science	3 cr.
HOS 1016	Introduction to Horticulture Mathematics and Chemistry	3 cr.
IPM 1011	Plant Pests	3 cr.
IPM 1011L	Plant Pests Laboratory	1 cr.
LDE 1310	Irrigation and Water Management	3 cr.
ORH 1007	Home Environment Horticulture	3 cr.
ORH 1220	Turf and Landscape Maintenance	3 cr.

ORH 1510	Plant Identification	3 cr.
ORH 1830	Landscape Design	3 cr.
ORH 1851	Landscape Installation	3 cr.
ORH 1873	Interiorscaping	3 cr.
SOS 1102	Soils and Fertilizers	3 cr.
	Specialty Area Electives	9 cr.

Specialty Area Electives:

Production

ORH 1262	Floriculture	3 cr.
ORH 1262L	Floriculture Laboratory	1 cr.
ORH 2212	Principles of Woody Ornamental Plants	2 cr.
ORH 2212L	Principles of Woody Ornamental Plants Laboratory	2 cr.
PLS 1220	Plant Propagation	2 cr.
PLS 1220L	Plant Propagation Laboratory	2 cr.

Retail Horticulture

MAN 1021	Principles of Management	3 cr.
MKA 1041	Introduction to Retailing	3 cr.
MKA 2105	Marketing Problems	3 cr.
MKA 2162	Creative Selling	3 cr.
ORH 1252	Retail Nursery Operations	3 cr.

Environmental Services

EVR 1328	Natural Resource Conservation	3 cr.
FNR 1001	Natural Resource Management	3 cr.
GIS 1041	Survey of Geographic Information Systems and Global Positioning Systems	1 cr.
GIS 2040	Fundamentals of Geographic Information Systems	3 cr.
ORH 1523	Native Upland Plants	3 cr.
ORH 1524	Native Wetland Plants	3 cr.
SUR 2533	Fundamentals of Global Positioning Systems	3 cr.

Irrigation

ORH 1002	Water Resources and Land Use	3 cr.
ORH 1302	Irrigation System Installation	3 cr.
ORH 1304	Low Volume Irrigation Systems	3 cr.
ORH 1306	Computer Software for Irrigation Systems	3 cr.
ORH 1309	Irrigation Trouble Shooting and Repair	3 cr.
ORH 1312	Residential Irrigation Design	3 cr.
ORH 1936	Irrigation Seminar	3 cr.

Pest Control

IPM 1301	Application of Pesticides and Fertilizers	3 cr.
IPM 2253	Management of Insects and Nematodes	3 cr.
IPM 2302	Applied Materials Chemistry and Calculations	3 cr.
IPM 2551	Regulatory Environment of Pest Management	3 cr.
IPM 2634	Management of Diseases and Weeds	3 cr.

AS/AAS • MANUFACTURING TECHNOLOGY

AS.MAN.TECH/AAS.MAN.TECH (64 Credit Hours)

This program will prepare students for jobs in the high-technology manufacturing industry as a manufacturing technician. If students are currently working in this field, this program will provide an opportunity to develop the skills necessary for advancement.

NOTE: All graduates of this AS degree program shall be granted admission into the Engineering Technology baccalaureate degree program at the University of Central Florida.

General Education Requirements

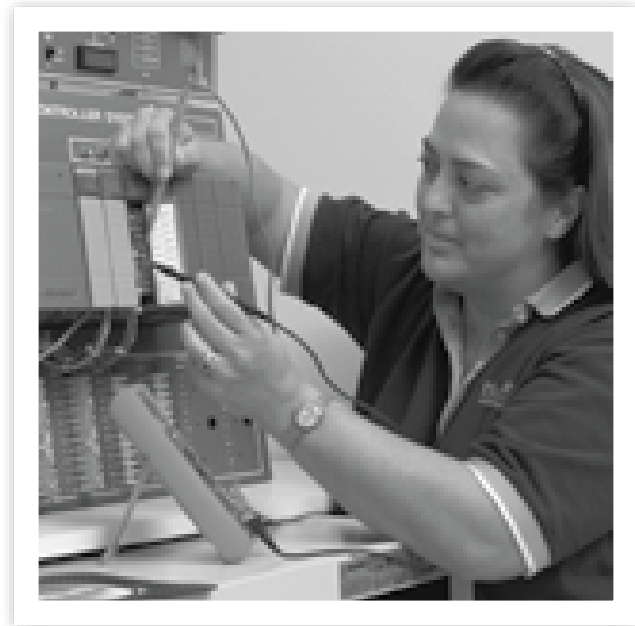
ENC 1101	English Composition I	3 cr.
CHM 1045	College Chemistry	3 cr.
CHM 1045L	College Chemistry Laboratory	1 cr.
MAC 1105	College Algebra	3 cr.
SPC 1600	Public Speaking	3 cr.
	Humanities General Education	3 cr.
	Social Science General Education	3 cr.

Program Required Courses

CGS 1000	Introduction to Computers and Technology	3 cr.
EET 1525C	Industrial Controls I	3 cr.
ETI 1100	Statistical Quality Control	3 cr.
*ETI 1403	Introduction to Advanced Manufacturing	1 cr.
ETI 1701	Process Safety and Hazardous Materials	2 cr.
ETI 1181	Quality Systems and Workplace Dynamics	2 cr.
ETI 1815	Introduction to Electronics for Advanced Manufacturing	3 cr.
ETI 1840	Vacuum Science	3 cr.
ETI 1840L	Vacuum Laboratory	1 cr.
ETI 1949	Manufacturing Internship	2 cr.
MAC 1114	Trigonometry	3 cr.
PHY 1025	Fundamentals of Physics	3 cr.
PHY 1025L	Fundamentals of Physics Laboratory	1 cr.
	Specified Electives (Group A)	4 cr.
	Specified Electives (Group B)	8 cr.
	Specified Electives (Group C)	3 cr.

Select 4 specified elective credits from the following (Group A):

ETI 1844	Vacuum Technology and Systems	3 cr.
ETI 1844L	Vacuum Technology Laboratory	1 cr.
ETM 2315	Hydraulics and Pneumatic Systems	3 cr.
ETM 2315L	Hydraulics and Pneumatic Systems Laboratory	1 cr.



19 cr.

45 cr.

Select 8 specified elective credits from the following (Group B):

CGS 1500	Applied Word Processing	1 cr.
CGS 1510	Spreadsheet Applications	1 cr.
CGS 1520	Business Graphics I	1 cr.
CGS 1540	Database Management	1 cr.
CHM 1046	General Chemistry II	3 cr.
CHM 1046L	General Chemistry II Laboratory	1 cr.
COP 1000	Programming Logic	3 cr.
COP 1220	Programming in "C"	3 cr.
EET 2215L	Electronic Instruments	3 cr.
EET 2526C	Industrial Controls II	3 cr.
EGS 2122C	Geometric Dimensioning and Tolerancing	3 cr.
ETI 1411C	Advanced Manufacturing Processes	3 cr.
ETI 1844	Vacuum Technology and Systems	3 cr.
ETI 1844L	Vacuum Technology Laboratory	1 cr.
ETI 2151C	Process Metrology	3 cr.
ETM 2315	Hydraulics and Pneumatic Systems	3 cr.
ETM 2315L	Hydraulics and Pneumatic Systems Laboratory	1 cr.
MAC 1147	Pre-Calculus Algebra/Trigonometry	5 cr.
MAC 2311	Calculus & Analytical Geometry	5 cr.
PHY 1054	General Physics II	3 cr.
PHY 1054L	General Physics II Laboratory	1 cr.

Select 3 specified elective credits from the following (Group C):

BCN 1250	Introduction to Graphic Technology	3 cr.
EGS 1111	Engineering Graphics	3 cr.
ETD 1030C	Drafting Technology	3 cr.

* Recommended course(s) for the first semester.

AS/AAS • NETWORK ADMINISTRATOR

AS.NA.GEN/ AS.NA.OPT1/AS.NA.OPT2/AS.NA.OPT3

AAS.NA.GEN/ AAS.NA.OPT1/AAS.NA.OPT2/ AAS.NA.OPT3 (63 Credit Hours)

AS/AAS • General Networking

AS.NA.GEN/AAS.NA.GEN

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II or Social Science General Education	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
	Humanities General Education	3 cr.
	Social Science or Natural Science General Education	3 cr.

Program Required Courses 48 cr.

CEN 1300	Microsoft Windows Professional	3 cr.
CEN 1301	Microsoft Windows Server	3 cr.
CEN 2939	Network Administrator Capstone	3 cr.
CET 1172C	Computer Upgrading and Repair	3 cr.
CET 1174C	Advanced Computer Repair	3 cr.
CET 1556C	Structured Cabling	3 cr.
CGS 1000	Introduction to Computers and Technology	3 cr.
CGS 1550	Introduction to Networking	3 cr.
CGS 1555	Introduction to the Internet	3 cr.
CGS 2301	Management Information Systems	3 cr.
CGS 2541	Database Design	3 cr.
CGS 1761	Computer Operating Systems	3 cr.
CNT 1401	Introduction to Network Security	3 cr.

Select 3 credit hours from the following:

CEN 1305	M/S Windows Implementing & Supporting Network Infrastructure	3 cr.
CEN 1306	Implementing & Supporting M/S Exchange Server	3 cr.
CEN 1310	Implementing & Supporting M/S Site Server	3 cr.
CGS 2763	Unix/Linux Administration I	3 cr.
CGS 2825	Web Site Administration	3 cr.

Select 6 credit hours from the following:

CDA 1162	Telecommunications	3 cr.
CGS 1760	Introduction to UNIX	3 cr.
CNT 2210	Wide Area Network Fundamentals	3 cr.
CNT 2405	Advanced Internetworking Security	3 cr.
CNT 2510	Wireless Networking	3 cr.
CNT 2941	Networking Services Internship	3 cr.
EET 1036C	Basic AC and DC	3 cr.
EET 1083C	Electronics Orientation	3 cr.

AS/AAS • Microsoft Certified Systems Engineer (MCSE)

AS.NA.OPT1/AAS.NA.OPT1

This program prepares students for jobs such as computer network specialist, network administrator, customer support analyst, telecom analyst, project coordinator, systems installer, and network systems engineer. The coursework focus is on Microsoft certification and telecommunications specialist.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II or Social Science General Education	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
	Humanities General Education	3 cr.
	Social Science or Natural Science General Education	3 cr.

Program Required Courses 48 cr.

CEN 1300	Microsoft Windows Professional	3 cr.
CEN 1301	M/S Windows Server	3 cr.
CEN 1305	M/S Windows Implementing & Administering a Network Infrastructure	3 cr.
CEN 1320	M/S Windows Implementing & Supporting Active Directory Services	3 cr.
CEN 1321	M/S Windows Designing a Directory Services Infrastructure	3 cr.
CEN 2939	Network Administrator Capstone	3 cr.
CET 1172C	Computer Upgrade & Repair	3 cr.
CGS 1000	Introduction to Information and Technology	3 cr.
CGS 1550	Introduction to Networking	3 cr.
CGS 1555	Introduction to the Internet	3 cr.
CGS 1761	Computer Operating Systems	3 cr.
CGS 2301	Management Information Systems	3 cr.
CGS 2541	Database Design	3 cr.
CNT 1401	Introduction to Network Security	3 cr.
	Specified Electives	6 cr.

Select at least 6 specified elective credits from the following:

CDA 1162	Telecommunications	3 cr.
CEN 1303	Administering M/S SQL Server	3 cr.
CEN 1306	Implementing and Supporting M/S Exchange Server	3 cr.
CEN 1308	Implementing and Supporting M/S Internet Explorer	3 cr.
CEN 1310	Implementing and Supporting M/S Site Server	3 cr.
CEN 1327	Planning/Maintaining MS Windows Network Infrastructure	3 cr.
CEN 2313	Implementing Database Design on M/S SQL Server	3 cr.
CEN 2316	Microsoft Proxy Server	3 cr.
CNT 2210	Wide Area Network Fundamentals	3 cr.
CNT 2405	Advanced Internetworking Security	3 cr.
CNT 2510	Wireless Networking	3 cr.

AS/AAS • Cisco and Telecommunications**AS.NA.OPT2/AAS.NA.OPT2**

This program prepares students for jobs such as computer network specialist, network administrator, customer support analyst, telecom analyst, project coordinator, systems installer, and network systems engineer. Focus is on Cisco Certification and telecommunications specialist.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II or Social Science General Education	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
	Humanities General Education	3 cr.
	Social Science or Natural Science General Education	3 cr.

Program Required Courses 48 cr.

CEN 2939	Network Administrator Capstone	3 cr.
CET 1600	Cisco Network Fundamentals	3 cr.
CET 1610	Cisco Router Technology	3 cr.
CET 1172C	Computer Upgrading and Repair	3 cr.
CET 1174C	Advanced Computer Repair	3 cr.
CET 1556C	Structured Cabling	3 cr.
CET 2615	Cisco Advanced Router Technology	3 cr.
CET 2620	Cisco Wide-Area Networking Technologies	3 cr.
CGS 1000	Introduction to Computers and Technology	3 cr.
CGS 1550	Introduction to Networking	3 cr.
CGS 1555	Introduction to the Internet	3 cr.
CGS 2301	Management Information Systems	3 cr.
CGS 2541	Database Design	3 cr.
CGS 1761	Computer Operating Systems	3 cr.
CIS 2321	Systems Analysis	3 cr.
	Specified Electives	3 cr.

Select at least 3 credit hours from the following:

CDA 1162	Telecommunications	3 cr.
CNT 1401	Introduction to Network Security	3 cr.
CNT 2210	Wide Area Network Fundamentals	3 cr.
CNT 2405	Advanced Internetworking Security	3 cr.
CNT 2510	Wireless Networking	3 cr.

AS/AAS • Unix/Linux System Administration**AS.NA.OPT3/AAS.NA.OPT3**

The purpose of this program is to prepare students for employment as a Unix or Linux system administrator or to provide supplemental training for persons previously or currently employed in these occupations. The content prepares individuals to install information technology equipment, troubleshoot information technology equipment, and support information technology users.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II or Social Science General Education	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
	Humanities General Education	3 cr.
	Social Science or Natural Science General Education	3 cr.

Program Required Courses 48 cr.

CEN 2939	Network Administrator Capstone	3 cr.
CET 1172C	Computer Upgrade and Repair	3 cr.
CGS 1000	Introduction to Computers and Technology	3 cr.
CGS 1550	Introduction to Networking	3 cr.
CGS 1555	Introduction to the Internet	3 cr.
CGS 1760	Introduction to Unix	3 cr.
CGS 1761	Computer Operating Systems	3 cr.
CGS 2301	Management Information Systems	3 cr.
CGS 2763	Unix/Linux Administration I	3 cr.
CGS 2764	Unix/Linux Administration II	3 cr.
CNT 1401	Introduction to Network Security	3 cr.
COP 1000	Programming Logic	3 cr.
COP 2344	Shell Scripting	3 cr.
CTS 2321	Unix/Linux Networking	3 cr.
CTS 2311	Unix/Linux Security	3 cr.

Select at least 3 credit hours of specified electives from the following list:

CDA 1162	Telecommunications	3 cr.
CEN 1300	Microsoft Window Professional	3 cr.
CEN 1301	M/S Windows Server	3 cr.
CET 1610	Cisco Router Technology	3 cr.
CET 2615	Cisco Advanced Router Technology	3 cr.
CGS 1936	Perl and CGI	3 cr.
CGS 2541	Database Design	3 cr.
CGS 2825	Web Site Management	3 cr.
CNT 2210	Wide Area Network Fundamentals	3 cr.
CNT 2405	Advanced Internetworking Security	3 cr.
CNT 2510	Wireless Networking	3 cr.
COP 1220	Programming in "C"	3 cr.

AS/AAS • OFFICE ADMINISTRATION

AS.OA.OMTS/AS.OA.OSTS/ AAS.OA.MOA/AAS.OA.OMTS/AAS.OA.OSTS/ (63 Credit Hours)

AS/AAS • Office Administration Office Systems Technology

AS.OA.OSTS/AAS.OA.OSTS

This specialization focuses on careers in office systems technology. Depending on the curriculum options selected, graduates will be prepared for positions such as office systems manager, senior administrative assistant, executive office administrator, senior word processing specialist, administrative assistant, office receptionist, software applications specialist, customer service representative, executive secretary, software trainer, or help desk specialist.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
PSY 2012	General Psychology	3 cr.
SYG 2000	Introduction to Sociology	3 cr.
	Humanities General Education	3 cr.

Program Required Courses 48 cr.

APA 1111	Basic Accounting	3 cr.
*CIS 1931	Microcomputer Concepts	3 cr.
*OST 1110	Intermediate PC Typing	3 cr.
*OST 1330	Skills for Transcription	3 cr.
OST 1335	Business Communications	3 cr.
OST 1345	Forms Design and Management	2 cr.
OST 1355	Records Information	3 cr.
OST 1382	International Office Protocol	1 cr.
OST 1741	Word Processing I	1 cr.
*OST 1831	Introduction to Windows I	1 cr.
OST 2402	Office Procedures	3 cr.
OST 2501	Office Administration	3 cr.
OST 2722	Advanced Word Processing	3 cr.
OST 2742	Word Processing II	1 cr.
OST 2743	Word Processing III	1 cr.
SLS 1261	Personal Skills for Business	3 cr.
SPC 1006	Speech Improvement	1 cr.

Select at least 10 credit hours from the following:

CAP 2816	Database Management II	1 cr.
CGS 1000	Introduction to Computers and Technology	3 cr.
CGS 1510	Spreadsheet Applications I	1 cr.
CGS 1520	Business Graphics I	1 cr.
CGS 1540	Database Management I	1 cr.
CGS 1550	Introduction to Networking	3 cr.
CGS 1555	Introduction to the Internet	3 cr.
CGS 2511	Spreadsheet Applications II	1 cr.
LIS 1004	Introduction to Internet Research	1 cr.
OST 1100	Beginning PC Typing	3 cr.
OST 1142	Keyboarding I	1 cr.
OST 1143	Keyboarding II	1 cr.
OST 1211	Shorthand I	3 cr.
OST 1825	Desktop Design	3 cr.

OST 1941	OST Internship	3 cr.
OST 2145	Data Entry Applications	3 cr.
OST 2357	Records Management	3 cr.
OST 2601	Machine Transcription/Terminology	3 cr.
OST 2826	Desktop Graphics	3 cr.

* Recommended course(s) for the first semester.

NOTE: Students may enroll in OST 1741, OST 2742 or OST 2743 three times for credit to learn different word processing software or to learn to operate different brands of word processing machines available at different campuses. However, one credit hour per course is the maximum applicable to Program Requirements (see course description).

AS/AAS • Office Administration Office Management

AS.OA.OMTS/AAS.OA.OMTS

This specialization prepares students for mid-management positions such as administrative office manager, office manager, equipment sales representative, administrative support manager, staff assistant, executive secretary, human resource technician, office manager, or executive assistant.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
PSY 2012	General Psychology	3 cr.
SYG 2000	Introduction to Sociology	3 cr.
	Humanities General Education	3 cr.

Program Required Courses 48 cr.

ACG 2021	Financial Accounting or APA 1111, Basic Accounting	3 cr.
BUL 2241	Business Law I	3 cr.
CGS 2301	Management Information Systems	3 cr.
CIS 1931	Microcomputer Concepts	3 cr.
ECO 1000	Introduction to Economics or ECO 2013 Principles of Macroeconomics	3 cr.
GEB 1011	Introduction to Business	3 cr.
MAN 1021	Principles of Management	3 cr.
OST 1100	Beginning PC Typing	3 cr.
OST 1335	Business Communications	3 cr.
OST 1345	Forms Design and Management	2 cr.
OST 1382	International Office Protocol	1 cr.
OST 1741	Word Processing I	1 cr.
OST 2357	Electronic Records Management	3 cr.
OST 2501	Office Administration	3 cr.
SLS 1261	Personal Skills for Business	3 cr.
SPC 1006	Speech Improvement	1 cr.

Select 7 credit hours from the following:

CAP 2816	Database Management II	1 cr.
CGS 1000	Introduction to Computers and Technology	3 cr.
CGS 1510	Spreadsheet Applications I	1 cr.
CGS 1520	Business Graphics I	1 cr.
CGS 1540	Database Management I	1 cr.
CGS 1550	Introduction to Networking	3 cr.
CGS 1555	Introduction to the Internet	3 cr.
CGS 2511	Spreadsheet Applications II	1 cr.
LIS 1004	Introduction to Internet Research	1 cr.
MNA 1320	Human Resources Recruitment, Interviewing, and Selection	3 cr.
MNA 1325	Human Resources Statistical Analysis, Compensation and Benefits	3 cr.
OST 1110	Intermediate PC Typing	3 cr.
OST 1142	Keyboarding I	1 cr.
OST 1143	Keyboarding II	1 cr.
OST 1330	Skills for Transcription	3 cr.
OST 1355	Records Information	3 cr.
OST 1813	Desktop Publishing	3 cr.
OST 1831	Introduction to Windows I	1 cr.
OST 1941	OST Internship	3 cr.
OST 2402	Office Procedures	3 cr.
OST 2742	Word Processing II	1 cr.
OST 2743	Word Processing III	1 cr.
OST 2722	Advanced Word Processing	3 cr.
OST 2826	Desktop Graphics	3 cr.

NOTE: Students may enroll in OST 1741, OST 2742 or OST 2743 three times for credit to learn various word processing software or to learn to operate different brands of word processing machines available at different campuses. However, one credit hour per course is the maximum applicable to Program Requirements (see course description).

HSC 1531	Medical Terminology	3 cr.
HSC 1641	Legal and Ethical Aspects in Health Care	1 cr.
OST 1110	Intermediate PC Typing	3 cr.
OST 1330	Skills for Transcription	3 cr.
OST 1335	Business Communications	3 cr.
OST 1355	Records Information	3 cr.
OST 1382	International Office Protocol	1 cr.
OST 1741	Word Processing I	1 cr.
OST 2135	Medical Document Production on the PC	3 cr.
OST 2145	Data Entry	3 cr.
OST 2402	Office Procedures	3 cr.
OST 2742	Word Processing II	1 cr.
SLS 1261	Personal Skills for Business	3 cr.
SPC 1006	Speech Improvement	1 cr.

Select 3 credit hours from the following:

HIM 2940	Clinical Billing Practicum	2 cr.
HIM 2941	Clinical Coder Practicum	2 cr.
OST 1941	OST Internship	3 cr.
OST 2743	Word Processing III	1 cr.

NOTE: Students may enroll in OST 1741, OST 2742 or OST 2743 three times for credit to learn different word processing software or to learn to operate different brands of word processing machines available at different campuses. However, one credit hour per course is the maximum applicable to Program Requirements (see course description).

**AAS • Office Administration
Medical Office Administration**

AAS.OA.MOA

This specialization prepares students for a position as a medical office manager, medical office assistant, medical coder, medical staff assistant, medical billing clerk, medical records clerk, insurance processor, medical transcriptionist, or executive assistant.

General Education Requirements		15 cr.
ENC 1101	English Composition I	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
PSY 2012	General Psychology	3 cr.
SYG 2000	Introduction to Sociology	3 cr.
	Humanities General Education	3 cr.
Program Required Courses		48 cr.
APA 1111	Basic Accounting	3 cr.
CIS 1931	Microcomputer Concepts	3 cr.
HIM 1000	Medical Record Content	1 cr.
HIM 1430	Principles of Disease with Anatomy I	4 cr.
HIM 1442	Pharmacology	2 cr.



AS/AAS • PARALEGAL STUDIES (LEGAL ASSISTING)

AS.LEGAL/AAS.LEGAL (64 Credit Hours)

This program will prepare students for a professional career as a paralegal (legal assistant). Under the supervision and direction of a licensed attorney, paralegals may engage in legal research, case development, preparation of legal documents and trial exhibits, analyze information, interview clients, assist in office management, and other responsibilities unique to the legal profession. Graduates of the program are prepared to sit for national certification exams.

NOTE: All graduates of this AS degree program shall be granted admission into the Legal Studies baccalaureate degree program at Florida Gulf Coast University.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
	Humanities General Education	3 cr.
	Social Science General Education	3 cr.

Program Required Courses 49 cr.

APA 1111	Basic Accounting	3 cr.
CGS 1000	Introduction to Computers and Technology	3 cr.

*PLA 1003	Introduction to the Paralegal Profession	3 cr.
PLA 1104	Writing and Research I	3 cr.
PLA 1203	Litigation Procedures I	3 cr.
*PLA 1271	Tort Law	3 cr.
PLA 1433	Business Organizations	3 cr.
PLA 1611	Real Estate Law/Property Transactions I	3 cr.
PLA 1600	Administering Wills/Trusts/Probate	3 cr.
PLA 2114	Writing and Research II	3 cr.
PLA 2303	Criminal Litigation	3 cr.
PLA 2421	Contract Law	3 cr.
PLA 2800	Family Law	3 cr.
SPC 1006	Speech Improvement	1 cr.
Choose 9 specified PLA elective credits from the following:		
ACG 2021	Financial Accounting	3 cr.
ACG 2071	Managerial Accounting	3 cr.
PLA 1700	Legal Ethics and Professional Responsibility	3 cr.
PLA 1949	Paralegal Internship	3 cr.
PLA 2223	Litigation Procedures II	3 cr.
PLA 2460	Bankruptcy Law	3 cr.
PLA 2531	Elder Law	3 cr.
PLA 2612	Real Estate Law/Property Trans II	3 cr.
PLA 2732	Law Office Computer Applications	3 cr.
PLA 2763	Law Office Management	3 cr.

* Recommended course(s) for the first semester.

AAS • RESTAURANT MANAGEMENT

AAS.CUL. RES (64 Credit Hours)

This program provides students with the skills necessary for employment as a manager of a hotel/motel, a restaurant, a cafe, a bar, a liquor establishment, a coffee shop, a catering agency or a fast food service.

The Restaurant Management program and courses are accredited by the American Culinary Federation Foundation's Accrediting Commission at 180 Center Place Way, St. Augustine, Florida 32095.

General Education Requirements 15 cr.

ENC 1101	English Composition I	3 cr.
BSC 1005C	Biological Foundations I	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
	Humanities General Education	3 cr.
PSY 2012	General Psychology	3 cr.

Program Required Courses 49 cr.

APA 1321	Hospitality Accounting	3 cr.
CGS 1000	Introduction to Computers and Technology	3 cr.
*FSS 1223	Food Preparation for Managers	4 cr.
FSS 1246C	Food Specialty I (Baking)	3 cr.
*FSS 1248C	Food Specialty II (Garde Manger I)	3 cr.
FSS 1249C	Food Specialty III (Garde Manger II)	3 cr.
FSS 1500	Food and Beverage Control	3 cr.
*FSS 2110	Food Plans and Menu Preparation	3 cr.
FSS 2120	Food Purchase and Storage	3 cr.
FSS 2271	Beverage Management and Service	3 cr.
HFT 2210	Management of Hospitality Personnel	3 cr.
HFT 2530	Merchandising and Advertising in the Hospitality Field	3 cr.
HFT 2840	Maitre d' and Dining Room Service	3 cr.
HUN 2201	Fundamentals of Human Nutrition	3 cr.
SPC 1006	Speech Improvement	1 cr.
	Electives	5 cr.

* Recommended course(s) for the first semester.

AS/AAS • SIGN LANGUAGE INTERPRETATION

AS.INTT/AAS.INTT (72 Credit Hours)

This program will prepare students for entry-level positions as sign language interpreters/transliterators in a variety of community and educational settings. This sequenced AS/AAS Degree program provides training in communication models and processes, American Sign Language, Deaf Culture, interpreting ethics, and hands-on training in oral and manual interpreting. There is also a strong sociolinguistic component to the program, with courses in Speech Pathology and Audiology, linguistics of ASL and the social and educational aspects of hearing loss. However, graduates are granted State Interpreting levels or certification only after testing and evaluation by the Florida Registry of Interpreters for the Deaf or the National Registry of Interpreters for the Deaf. Course work, which focuses on interpreting from English into American Sign Language (ASL) and from ASL into English, includes classroom and lab work, a field practicum and an internship.

NOTE: All graduates of this AS degree program shall be granted admission into the Communication Sciences and Disorders baccalaureate degree program at the University of South Florida.

Prerequisite courses for Admission 8 cr.

ASL 1140	American Sign Language I	3 cr.
ASL 1140L	American Sign Language I Laboratory	1 cr.
ASL 1150	American Sign Language II	3 cr.
ASL 1150L	American Sign Language II Laboratory	1 cr.

General Education Requirements 18 cr.

ANT 2000	Introduction to Anthropology or PSY 2012 General Psychology or SYG 2000	
	Introduction to Sociology	3 cr.
ENC 1101	English Composition I	3 cr.
ENC 1102	English Composition II	3 cr.
BSC 1005C	Biological Foundations I or Biological Science General Education w/Lab	3 cr.
MGF 1119	Introductory Mathematics w/Applications (non-transfer) or Mathematics General Education (transfer)	3 cr.
	Humanities General Education	3 cr.

Program Required Courses

46 cr.

ASL 1300C	American Sign Language-Applied Linguistics	4 cr.
ASL 1430	Fingerspelling	2 cr.
ASL 1510	Introduction to Deaf Culture	3 cr.
ASL 2130	American Sign Language III	3 cr.
ASL 2130L	American Sign Language III Lab	1 cr.
ASL 2210	American Sign Language IV	3 cr.
ASL 2210L	American Sign Language IV Lab	1 cr.
INT 1941	Interpreting Practicum	2 cr.
INT 2130	Introduction to Interpreting Ethics	3 cr.
INT 2200	Interactive Interpreting I	3 cr.
INT 2200L	Interactive Interpreting I Lab	2 cr.
INT 2201L	Interactive Interpreting II Lab (Lab Only)	3 cr.
INT 2210L	Interactive Transliterating Lab (Lab Only)	2 cr.
INT 2231L	American Sign Language to Spoken English Interpreting (Lab Only)	3 cr.
INT 2400	Educational Interpreting	2 cr.
INT 2400L	Educational Interpreting Lab	1 cr.
INT 2930	Interpreting Topics	2 cr.
INT 2942	Interpreting Internship	3 cr.
SPA 2001	Survey of Communication Disorders	3 cr.



AS • VETERINARY TECHNOLOGY

AS.VET.TECH (73 Credit Hours)

Veterinary Technology is a rapidly growing field. Employment of veterinary technicians/technologists is expected to grow much faster than the average for all occupations through the year 2012, according to the most recent information from the U.S. Department of Labor. Graduates from this program will find careers in areas such as private practice, animal shelters and humane societies, agriculture (equine services, farms, and ranches), biomedical research, zoo/wildlife medicine, tourist/recreational facility animal care and research, and pharmaceutical and government. This program which awards the associate in science degree will prepare students to enter the workforce prepared for clinical practice, research animal husbandry, or clinical management.

General Education Requirements 18 cr.

ENC 1101	English Composition I	3 cr.
BSC 1005C	Biological Foundations I or Biological Science General Education w/Lab	3 cr.
	Humanities General Education	6 cr.
MAC 1105	College Algebra or MGF 1106, Mathematics for Liberal Arts I or higher General Education Math or STA 2023, Elementary Statistics	3 cr.
	Social Science General Education	3 cr.

Program Required Courses 55 cr.

ATE 1001	Introduction to Veterinary Technology	1 cr.
ATE 1110	Animal Anatomy	3 cr.
ATE 1110L	Animal Anatomy Laboratory	1 cr.

ATE 1211	Animal Physiology	3 cr.
ATE 1311L	Veterinary Office Procedures Laboratory	1 cr.
ATE 1630	Pharmacology for Veterinary Technicians	1 cr.
ATE 1650L	Veterinary Clinical Practice I	1 cr.
ATE 1741	Veterinary Medical Terminology	1 cr.
ATE 1943	Veterinary Work Experience I	1 cr.
ATE 1944	Veterinary Work Experience II	1 cr.
ATE 2722	Avian and Exotic Pet Medicine	2 cr.
ATE 2020	Contemporary Clinical Issues	3 cr.
ATE 2050	Small Animal Breeds and Behavior	1 cr.
ATE 2501	Professional Development and Ethics Seminar	1 cr.
ATE 2611	Animal Medicine I	3 cr.
ATE 2612	Small Animal Nursing	3 cr.
ATE 2614	Animal Medicine II	3 cr.
ATE 2631	Animal Nursing	3 cr.
ATE 2636	Large Animal Nursing and Clinical Skills	2 cr.
ATE 2638	Animal Clinical Pathology	3 cr.
ATE 2638L	Animal Clinical Pathology Lab	2 cr.
ATE 2639	Animal Clinical Pathology II	3 cr.
ATE 2639L	Animal Clinical Pathology II Lab	2 cr.
ATE 2651L	Animal Nursing and Medical Laboratory	2 cr.
ATE 2652L	Introduction to Clinical Practice	1 cr.
ATE 2661	Large Animal Diseases	1 cr.
ATE 2671L	Medicine of Laboratory Animals	2 cr.
ATE 2710	Animal Emergency Medicine	2 cr.
ATE 2945	Veterinary Work Experience III	1 cr.
ATE 2946	Veterinary Work Experience IV	1 cr.

