

†ETS	1535	Automated Process Control.....	3 cr.
ETS	1539	Instrumentation Systems Safety.....	3 cr.
†ETS	2604	Robotics Applications.....	3 cr.
PMT	1250C	Computer Numerical Control (CNC) I.....	3 cr.
PMT	2254C	Computer Numerical Control (CNC) II.....	3 cr.
†SLS	1106	First Year Experience Orientation.....	3 cr.
†SPC	1608	Public Speaking.....	3 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Environmental Science Technology

AS.EVR.LAB/AS.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.

AS • Environmental Technician

AS.EVR.ETEC

Program Required Courses

YEAR I – First Semester

†ENC	1101	English Composition I.....	3 cr.
		Environmental Program Core Requirements and Specified Electives as available.....	9-12 cr.

YEAR I – Second Semester

†CGS	1000	Introduction to Computers and Technology.....	3 cr.
		Humanities General Education CORE.....	3 cr.
		Environmental Program Core Requirements and Specified Electives as available.....	9-12 cr.

YEAR I – Third Semester

†BSC	1005	Biological Foundations.....	3 cr.
†BSC	1005L	Biological Foundations Laboratory.....	1 cr.
†CHM	1025	Introductory Chemistry.....	3 cr.
†CHM	1025L	Introductory Chemistry Laboratory.....	1 cr.
†MAC	1105	College Algebra.....	3 cr.

YEAR II – First Semester

†POS	2041	American Government.....	3 cr.
		Environmental Program Core Requirements and Specified Electives as available.....	9-12 cr.

YEAR II – Second Semester

EVS	2942L	Environmental Technology Practicum.....	3 cr.
		Environmental Program Core Requirements and Specified Electives as available.....	9-12 cr.

Environmental Program Core Classes

†EVR	2858	Environmental Law.....	4 cr.
†EVS	1001	Introduction to Environmental Sustainability.....	3 cr.
EVS	2891	Hydrology and Quality of Water Resources.....	4 cr.
EVS	2894C	Water Sampling and Analysis I.....	5 cr.
EVS	2895C	Water Sampling and Analysis II.....	5 cr.
EVS	2893C	Soil Sampling and Analysis.....	5 cr.
GIS	1041	Survey of GIS/GPS.....	1 cr.

Select 11 specified elective credits from the following:

Water Emphasis

EVS	1026	Chemistry and Biology of Natural Waters.....	4 cr.
-----	------	--	-------

Geographic Information Systems/Global Position Systems

EVR	1041	Natural Resource Management w/Applications in GIS.....	4 cr.
†GIS	2040	Fundamentals of GIS.....	3 cr.

Natural Resource Management

EVR	1328	Natural Resource Conversation 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.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Laboratory Technician**AS.EVR.LAB****Program Required Courses****YEAR I – First Semester**

†CGS	1000	Introduction to Computers and Technology.....	3 cr.
†ENC	1101	English Composition I.....	3 cr.
EVS	2893C	Soil Sampling and Analysis.....	5 cr.
		Mathematics General Education CORE.....	3 cr.

YEAR I – Second Semester

†BSC	2010	Biological Science	3 cr.
†BSC	2010L	Biological Science Laboratory.....	1 cr.
†CHM	1025	Introductory Chemistry.....	3 cr.
†CHM	1025L	Introductory Chemistry Laboratory	1 cr.
†SPC	1006	Speech Improvement.....	1 cr.
		Specified Electives.....	4 cr.

YEAR I – Third Semester

†CHM	2045	General Chemistry I.....	3 cr.
†CHM	2045L	General Chemistry I Laboratory	1 cr.
		Humanities General Education CORE.....	3 cr.
		Social/Behavioral Science General Education	3 cr.

YEAR II – First Semester

†CHM	2046	General Chemistry II.....	3 cr.
†CHM	2046L	General Chemistry II Laboratory	1 cr.
EVS	2894C	Water Sampling and Analysis I.....	5 cr.
EVS	1026	Chemistry and Biology of Natural Waters.....	4 cr.

YEAR II – Second Semester

CHM	2132C	Modern Chemical Instrumentation	4 cr.
EVS	2895C	Water Sampling and Analysis II	5 cr.
EVS	2942L	Environmental Technology Practicum.....	3 cr.
		Specified Electives.....	2 cr.

Select 6 specified elective credits from the following:

ETI	1701	Industrial Safety	2 cr.
EVS	1893	Comparative Sampling and Analysis Methods	3 cr.
†MCB	1060	Food Microbiology.....	3 cr.
†MCB	1060L	Food Microbiology Laboratory	1 cr.

†Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Fire Science Technology**AS.FIRE.UNIV (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.

Program Required Courses**YEAR I – First Semester**

†ENC	1101	English Composition I.....	3 cr.
------	------	----------------------------	-------

YEAR I – Second Semester

*†ARC	2501	Architectural Structures I.....	4 cr.
BCN	2939C	Construction Capstone.....	3 cr.

*May required additional coursework.

CCC • Technology Project Manager

CCC.TECH.PRO.MAN (24 credit Hours)

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers such as project managers and professionals incorporating IT project management strategies in their business activities in the Information Technology career cluster; provides technical skill proficiency, and competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Information Technology career cluster.

Program Required Courses

YEAR I – First Semester

†CGS	1000	Introduction to Computes and Technology.....	3 cr.
------	------	--	-------

YEAR I – Second Semester

†CGS	1103	Project Management	3 cr.
		Specified Elective	3 cr.

YEAR I – Third Semester

†CGS	2091	Information Technology: Ethical/Legal Issues	3 cr.
------	------	--	-------

YEAR II – First Semester

CGS	2105	IT Project Management Software Applications.....	3 cr.
		Specified Elective	3 cr.

YEAR II – Second Semester

†CGS	2301	Management Information Systems.....	3 cr.
		Specified Elective	3 cr.

Select 9 credit hours from the specified electives below:

†ACG	2021	Introduction to Financial Accounting.....	3 cr.
†CET	1172C	PC Upgrading and Repair: Hardware.....	3 cr.
†GEB	1011	Introduction to Business	3 cr.
MAN	2300	Introduction to Human Resource Management	3 cr.
†OST	1335	Business Communications	3 cr.

or any courses with prefix CAP, CEN, CGS, CIS, CNT, COP, CTS

NOTE: Coursework may be applied to the two-year AS degree Information Project Management.

CCC • Water Quality Technician

CCC. ENV.WQ.TECH (12 Credit Hours)

This certificate is designed to prepare students for immediate entry into a career in the workforce as a water quality technician.

Program Required Courses

YEAR I – First Semester

†EVS	1001	Introduction to Environmental Sustainability.....	3 cr.
EVS	2894C	Water Sampling and Analysis I.....	5 cr.
		*Specified Elective	4 cr.

***Select 4 credit hours from the following:**

**EVS	1026	Chemistry and Biology of Natural Waters.....	4 cr.
EVS	2891	Hydrology and Quality of Water Resources	4 cr.

**Requires additional coursework.

NOTE: Coursework may be applied to the two-year AS degree Environmental Science Technology program.

CCC • Project Manager Associate

CCC.PRO.MAN.ASO (12 credit Hours)

Program Required Courses

YEAR I – First Semester

†CGS 1000 Introduction to Computes and Technology..... 3 cr.

YEAR I – Second Semester

†CGS 1103 Project Management 3 cr.

YEAR II – First Semester

CGS 2105 IT Project Management Software Applications..... 3 cr.

Specified Elective 3 cr.

Select 3 credit hours from the specified electives below:

†CGS 2091 Information Technology: Ethical/Legal Issues 3 cr.

†CGS 2541 Database Design 3 cr.

†CGS 2301 Management Information Systems 3 cr.

†OST 1335 Business Communications 3 cr.

*May require additional coursework.

NOTE: Coursework may be applied to the two-year AS degree Information Project Management.

CCC • Real Estate Paralegal

CCC.RES.LEGAL (12 Credit Hours)

The Real Estate Paralegal certificate prepares individuals for entry into the legal field as Real Estate Paralegals, Title Company Professionals, and Escrow / Closing Officers. The course content includes property law, real property transactions, ethics and professional responsibility, contract law, and employability skills.

Program Required Courses

YEAR I – First Semester

†PLA 1003 Introduction to the Paralegal Profession..... 3 cr.

†PLA 1611 Real Estate Law/Property Transactions I 3 cr.

†PLA 2421 Contract Law 3 cr.

†PLA 2612 Real Estate Law/Property Transactions II..... 3 cr.

CCC • Robotics and Simulation

CCC.ROB.SIM (12 Credit Hours)

This certificate is designed to expose students to the basic fundamentals of robotics and simulation and also prepare students for employment as an entry level Robotics and Simulation technician.

Program Required Courses

YEAR I – First Semester

†EET 1036C Basic AC and DC..... 3 cr.

YEAR I – Second Semester

†CET 1123C Introduction to Microprocessors/Microcontrollers..... 3 cr.

†EET 1141C Solid State Devices 3 cr.

YEAR II – First Semester

†ETS 1603C Fundamentals of Robotics and Simulation 3 cr.

CCC • Sustainable Design

CCC.ADCT.SUS (19 Credit Hours)

Program Required Courses

YEAR I – First Semester

BCN 2049 Sustainable Design and Construction..... 3 cr.

BCN 2760 Building Codes 3 cr.

*†BCT 2770C Construction Estimating..... 3 cr.

†TAR 1172C B.I.M. III Revit M.E.P 3 cr.

YEAR II – First Semester

ACG	2061	Computers in Accounting.....	3 cr.
†GEB	2214	Business Communications and Technology.....	3 cr.
TAX	2000	Federal Tax Accounting I.....	3 cr.
		Humanities General Education CORE.....	3 cr.

YEAR II – Second Semester

ACG	2681	Financial Investigation.....	3 cr.
ACG	2949	Cooperative Education Internship in Accounting.....	3 cr.
†FIN	1100	Personal Finance.....	3 cr.
†TAX	2010	Federal Tax Accounting II.....	3 cr.

YEAR II – Third Semester

†ACG	2961	Comprehensive Examination – Tax Option.....	3 cr.
†BUL	2241	Business Law I.....	3 cr.

*Courses symbolized above with a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

AS • Aquaculture**AS.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.

Program Required Courses**YEAR I – First Semester**

†CGS	1107	Introduction to Computers.....	1 cr.
†ENC	1101	English Composition I.....	3 cr.
†FAS	1012C	Aquacultural Organisms.....	3 cr.
ZOO	1450	Ichthyology.....	3 cr.
ZOO	1450L	Ichthyology Laboratory.....	1 cr.
		Mathematics General Education CORE.....	3 cr.

YEAR I – Second Semester

†CHM	1025	Introductory Chemistry.....	3 cr.
†CHM	1025L	Introductory Chemistry Laboratory.....	1 cr.
†ESC	1000	Earth Science <i>and</i> †ESC 1000L, Earth Science Laboratory <i>or</i> †OCB 2000, Marine Biology <i>and</i> †OCB 2000L, Marine Biology Laboratory.....	4 cr.
FAS	1401L	Aquacultural Laboratory Techniques.....	3 cr.
FAS	2263C	Aquacultural Reproductive Techniques.....	3 cr.

YEAR I – Third Semester

†EVR	1001C	Introduction to Environmental Science.....	3 cr.
†FAS	2941L	Aquacultural Field Experience I.....	3 cr.

YEAR II – First Semester

FAS	2240C	Aquacultural Nutritional Techniques.....	3 cr.
FAS	2253	Aquacultural Disease Processes.....	3 cr.
FAS	2253L	Aquacultural Disease Processes Laboratory.....	1 cr.
†FAS	2942L	Aquacultural Field Experience II.....	3 cr.
		Humanities General Education CORE.....	3 cr.

YEAR II – Second Semester

†AMH	2020	Modern American History or †POS 2041, American Government.....	3 cr.
FAS	1404C	Aquacultural Field Techniques.....	3 cr.
FAS	2353C	Aquacultural Management Practices.....	3 cr.
†FAS	2943L	Aquacultural Field Experience III.....	3 cr.
†SPC	1006	Speech Improvement.....	1 cr.

*Courses symbolized by a dagger (†) are offered online in addition to the traditional delivery method. Online availability may vary by academic term.

YEAR II – Second Semester

CIS	2772	Cybersecurity Operations Fundamentals	3 cr.
†CIS	2353	Security Management and Penetration Testing	3 cr.
†CNT	2510	Wireless Networking	3 cr.

*Permission of instructor required for concurrent enrollment with prerequisite.

**May require additional coursework.

†Courses symbolized with a dagger (†) are offered online in addition to the traditional delivery methods. Online availability may vary by academic term.

NOTE: Coursework may be applied to the two-year AS degree Network Systems Technology program.

CCC • Aquaculture Technology**CCC.AQUA (26 Credit Hours)**

This program will prepare students for employment in the field of aquaculture technology and transfers into the associate in science degree program titled Aquaculture.

Program Required Courses

YEAR I – First Semester

†FAS	1012C	Aquacultural Organisms	3 cr.
ZOO	1450	Icthyology	3 cr.
ZOO	1450L	Icthyology Laboratory	1 cr.

YEAR I – Second Semester

FAS	1401L	Aquacultural Laboratory Techniques	3 cr.
FAS	2263C	Aquacultural Reproductive Techniques	3 cr.

YEAR II – First Semester

FAS	2240C	Aquacultural Nutritional Techniques	3 cr.
FAS	2253	Aquaculture Disease Processes	3 cr.
FAS	2253L	Aquaculture Disease Processes Laboratory	1 cr.

YEAR II – Second Semester

FAS	1404C	Aquacultural Field Techniques	3 cr.
FAS	2353C	Aquacultural Management Practices	3 cr.

NOTE: Coursework may be applied to the two-year AS degree Aquaculture program.

CCC • AutoCAD Foundations**CCC.ADCT.CAD (15 Credit Hours)**

This certificate provides students with the AutoCAD skills needed to assist architects and construction engineers in planning, designing and detailing. Computer design techniques are emphasized in the certificate.

Program Required Courses

YEAR I – First Semester

BCN	1250	Introduction to Graphic Technology	3 cr.
†BCN	2272	Blueprint Reading	3 cr.
*†TAR	2053	Introduction to Computer Design and Drafting	3 cr.

YEAR I – Second Semester

†ARC	2461	Materials and Methods I	3 cr.
*†TAR	2054	Intermediate Computer Aided Design and Drafting	3 cr.

*May require additional coursework.

NOTE: Coursework may be applied to the two-year AS degree Architectural Design and Construction Technology program.

CCC • Automation**CCC.EST (12 Credit Hours)**

This certificate prepares students for engineering technology support positions dealing with PLCs, automation, and control systems in high tech production, manufacturing, distribution, and engineering research and development facilities.

Program Required Courses

YEAR I – First Semester

†ETI	1843	Motors and Controls	3 cr.
------	------	---------------------------	-------