

## Web Programming Certificate

The Web Programming Certificate provides a strong background with plenty of hands-on experience in structured, procedural, and object-oriented programming languages. The latest versions of C++, Java, and Perl are covered.

		Credits
COSC 118	Computer Programming Fundamentals I with C++	3
COSC 190	Database Concepts and Principles	3
COSC 202	Web Development I	3
COSC 203	Web Development II	3
COSC 218	Computer Programming Fundamentals II with C++	3
COSC 236	UNIX	3
COSC 240	Java Programming	3
COSC 243	Web Programming on UNIX Systems	3
<b>Total Credit Hours</b>		<b>24</b>

## ENGINEERING Associate of Science

It is suggested that students complete the degree as outlined and consider the additional courses accepted through the New Mexico Engineering Transfer Module (see details below degree requirements).

Students must have a minimum 2.0 grade point average and a grade of C or better in any of the courses required for transfer.

<b>Communications</b>		<b>Credits</b>
ENGL 111	Freshman Composition	3
ENGL 211	Advanced Composition	3
<b>Total Communications</b>		<b>6</b>
<b>Mathematics</b>		<b>Credits</b>
MATH 188	Calculus I	4
MATH 189	Calculus II	4
MATH 268	Calculus III	4
MATH 282	Differential Equations	4
<b>Total Mathematics</b>		<b>16</b>
<b>Social and Behavioral Science:</b>		<b>Credits</b>
	Select one course: For appropriate courses see Page 127	3
<b>Total Social/Behavioral Science</b>		<b>3</b>
<b>Humanities and Fine Arts:</b>		<b>Credits</b>
	Select one course: For appropriate courses see Page 127	3
<b>Total Humanities/Fine Arts</b>		<b>3</b>
<b>Engineering – Core classes:</b>		<b>Credits</b>
CHEM 111	General Chemistry I	4
CHEM 112	General Chemistry II	4
COSC 118	Computer Programming Fundamentals I with C++	3

ENGR 233	Mechanics-Statics	3
ECON 251	Macroeconomics <b>OR</b>	
ECON 252	Microeconomics	3
ENGR 230	Engineering Circuit Analysis	3
ENGR 112	Introduction to Engineering	3
DRFT 121	Engineering Graphics	3
ENGR 234	Mechanics-Dynamics	3
ENGR 236	Thermodynamics	3
PHYS 215/L	Engineering Physics I + Lab	4
PHYS 216/L	Engineering Physics II + Lab	4
	<b>Total Engineering Core</b>	<b>40</b>
	<b>Total credit hours required for this degree</b>	<b>68</b>

### New Mexico Engineering Transfer Module

Time permitting students are encouraged to take any or all of the following courses, as they are also included in the articulated transfer module within New Mexico.

ENGL 218	Technical Writing	3
	<b>One</b> Humanities & Fine Arts elective	3
	<b>One</b> additional Humanities & Fine Arts elective <b>OR</b> Social & Behavioral elective	3

## GENERAL SCIENCE

### Associate of Science

<b>General Education Core for Associate of Science (See Page 127)</b>	<b>28</b>
NOTE: Math requirement must be MATH 188	
Lab Science Requirement included in Chemistry-core classes	

<b>General Science – Core classes:</b>		<b>Credits</b>
BIOL 121	Introductory Biology I	4
BIOL 122	Introductory Biology II	4
CHEM 111	General Chemistry I	4
CHEM 112	General Chemistry II	4
COSC 111	Computer Literacy <b>OR</b> Higher Computer Science	3
GEOL 110	Introduction to Geology <b>OR</b> GEOL 111 Historical Geology <b>OR</b> Science Selection*	4
PHYS 211	General Physics I	3
PHYS 211L	General Physics I Lab	1
	<b>Total General Science Core</b>	<b>27</b>

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