



## Coastline Community College Associate in Arts: Science and Math

<p><b>DEGREE OBJECTIVE:</b></p> <p>Courses in this major develop understanding of mathematical and scientific methods and knowledge, preparing student for a wide range of careers in technology, the health field, education, research, engineering and business.</p> <p><b>DEGREE REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>• Complete at least 60 semester hours (SH):             <ul style="list-style-type: none"> <li>○ A maximum of 40 semester hours may be awarded for non-traditional coursework i.e. military experience, CLEP/DSST exams or Excelsior exams, etc.</li> <li>○ At least 12 semester hours must be earned at Coastline to establish residency.</li> </ul> </li> <li>• Earn an overall grade point average of 2.0 or higher from all colleges attended and a 2.0 or higher grade point average at Coastline.</li> </ul>	<ul style="list-style-type: none"> <li>• Forward all official college and military transcripts to Coastline.</li> <li>• Complete at least 2.5 SH toward Global and Multicultural Studies requirement.</li> <li>• Complete the specific General Education requirements as listed in <b>Group A-E</b> below.</li> </ul> <p><b>GENERAL EDUCATION REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li><b>A1.</b> Speech/Communications (3 SH)</li> <li><b>A2.</b> English (3 SH)</li> <li><b>A3.</b> Math Competency</li> <li><b>B.</b> Natural Science (3 SH)</li> <li><b>C.</b> Art &amp; Humanities (3 SH)</li> <li><b>D.</b> Social Science (3 SH)</li> <li><b>E.</b> Self Development (3 SH)</li> </ul>
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### DEGREE REQUIREMENTS SUMMARY

All courses, except those in **bold** print, are available online. However, courses not offered through Coastline may be taken at other regionally accredited institutions and/or may be satisfied through military training and experience. Click here to see how your military training may meet degree requirements.

<b>Major: Science and Math – Total Semester Hours Required: 18 SH</b> All major courses must be completed with a grade of “C” or better <u>At least one course should be a science course and at least one should be a math course.</u>		
ASTR C100	Introduction to Astronomy	3
ASTR C100L	Astronomy Laboratory	1
BIOL C100	Introduction to Biology	3
BIOL C101	Introduction to Biology Lab	1
BIOL C105	Introduction to Anatomy & Physiology	3
BIOL C120	Biology of Aging	3
<b>BIOL C170</b>	<b>Human Anatomy</b>	<b>4</b>
<b>BIOL C175</b>	<b>Human Physiology</b>	<b>4</b>
CHEM C100	Chemistry and Living	3
<b>CHEM C105</b>	<b>Chemistry Explorations for Teachers</b>	<b>2</b>
<b>CHEM C110</b>	<b>Introduction to Chemistry</b>	<b>5</b>
<b>CHEM C130</b>	<b>General Chemistry Preparatory</b>	<b>4</b>
<b>CHEM C180</b>	<b>General Chemistry A</b>	<b>4</b>
<b>CHEM C180L</b>	<b>General Chemistry Lab A</b>	<b>1</b>
<b>CHEM C185</b>	<b>General Chemistry B</b>	<b>4</b>
<b>CHEM C185L</b>	<b>General Chemistry Lab B</b>	<b>1</b>



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ECOL C100	Human Ecology	3
<b>ECOL C105</b>	<b>Ecosystems</b>	<b>3</b>
GEOL C100	General Geology	3
<b>GEOL C130</b>	<b>California Geology</b>	<b>3</b>
<b>GEOL C140</b>	<b>Introduction to Geology</b>	<b>3</b>
GEOL C141	Geology Lab	1
MRSC C100	Introduction to Marine Science	3
<b>MRSC C100L</b>	<b>Marine Sciences Oceanography Lab</b>	<b>1</b>
<b>MRSC C105</b>	<b>Marine Biology</b>	<b>4</b>
MATH C100	Quantitative Reasoning	3
<b>MATH C103</b>	<b>Math for Elementary Teachers 3</b>	<b>3</b>
<b>MATH C106</b>	<b>Geometry for Elementary Teachers</b>	<b>3</b>
MATH C115	College Algebra	4
<b>MATH C120</b>	<b>Trigonometry</b>	<b>3</b>
<b>MATH C140</b>	<b>Survey of Calculus</b>	<b>4</b>
<b>MATH C150</b>	<b>Finite Mathematics with Applications</b>	<b>4</b>
MATH C160	Introduction to Statistics	4
<b>MATH C170</b>	<b>Pre Calculus Mathematics</b>	<b>5</b>
<b>MATH C180</b>	<b>Calculus 1</b>	<b>5</b>
<b>MATH C185</b>	<b>Calculus 2</b>	<b>5</b>
<b>MATH C280</b>	<b>Calculus with Analytic Geometry 3</b>	<b>5</b>
<b>MATH C285</b>	<b>Linear Algebra &amp; Differential Equations</b>	<b>5</b>
PHYS C110	Introduction to Physics	3
<b>PHYS C120</b>	<b>Physics 1</b>	<b>4</b>
<b>PHYS C125</b>	<b>Physics 2</b>	<b>4</b>
Courses may satisfy both GE requirements and major however, course credit cannot be duplicated.		
<b>General Education – Complete 18 SH of GE courses listed in Groups A-E below, including the specific requirements indicated for each area:</b>		
<b>A1. Speech/Communications – Choose one from the following:</b>		<b>3 SH</b>
COMM C100	Intro to Mass Communication <i>Note: COMM C100 may only satisfy Area A1 or D, not both.</i>	3
SPCH C110	Public Speaking (DSST)	3
<b>A2. English</b>		<b>3 SH</b>
ENGL C100	Freshman Composition (“C” or better) – recommended for transfer to a 4-year university	3
ENGL C135	Business Writing (“C” or better) – for non transfer students	3
<b>A3. Math Competency</b>		<b>NEED</b>
Satisfied by completion of Math, C030, C100, C115 or C160 with a grade of “C” or better or passing the math placement test into Math C100, OR completion of two years of high school algebra with a grade of “C” or better, OR passing intermediate algebra or higher level math course at any regionally accredited college institution with a grade of “C” or better, OR at least 3sh of technical math or higher from military experience, OR passing the ASSET exam: Intermediate Algebra with a score of 35 or higher.		
<b>B. Natural Science – Choose one of the following:</b>		<b>3 SH</b>
ASTR C100	Intro to Astronomy	3
BIOL C100	Intro to Biology	3



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BIOL C101	Intro to Biology Lab	1
BIOL C105	Anatomy & Physiology	3
BIOL C120	Biology of Aging	3
CHEM C100	Chemistry and Living	3
ECOL C100	Human Ecology	3
GEOL C100	General Geology	3
GEOL C141	Geology Lab	1
MRSC C100	Intro to Marine Science	3
PHYS C110	Intro to Physics	3
<b>C. Arts &amp; Humanities - Choose from the following:</b>		<b>3 SH</b>
ARAB C180A	Elementary Arabic 1A	2.5
ARAB C180B	Elementary Arabic 1B	2.5
ART C100	History & Appreciation of Art 1	3
ART C101	History & Appreciation of Art 2	3
ART C105	Introduction to Art	3
ENGL C102	Critical Reasoning, Reading and Writing	3
ENGL C143	Children's Literature	3
ENGL C145	American Literature: The Short Story	3
ENGL C146	Introduction to 20 <sup>th</sup> Century Military Fiction	3
HUM C110	Humanities through the Arts	3
HUM C130	American Cinema	3
MUS C100	History & Appreciation of Music	3
MUS C105	History of Rock and Roll	3
PHIL C100	Intro to Philosophy	3
PHIL C115	Logic/Critical Thinking	3
PHIL C120	Ethics	3
SPAN C180A	Elementary Spanish 1A	2.5
SPAN C180B	Elementary Spanish 1B	2.5
<b>D. Social Sciences - Choose one from the following:</b>		<b>3 SH</b>
ANTH C100	Cultural Anthropology	3
ANTH C110	Physical Anthropology	3
COMM C100	Intro to Mass Communications	3
COMM C150	Introduction to Radio-TV-Film	3
ECON C180	Principles of Economics (MACRO)	3
ECON C185	Principles of Economics (MICRO)	3
HIST C125	Modern Iraqi History and Culture	3
HIST C160	World History to 1500	3
HIST C165	World History from 1500	3
HIST C170	US History to 1876	3
HIST C175	US History Since 1876	3
HIST C180	Western Civilization To 1550	3
HIST C185	Western Civilization Since 1550	3
PSCI C100	American Government	3
PSCI C140	Politics of the Middle East	3



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PSYC C100	Intro to Psychology	3
PSYC C115	Child Growth & Development	3
PSYC C120	Abnormal Psychology	3
PSYC C170	Psychology of Aging	3
PSYC C280	Intro to Research Methods in Psychology	4
SOC C100	Introduction to Sociology	3
SOC C110	Marriage and Family	3
SOC C120	Introduction to Gerontology	3
<b>E. Self-Development (May be satisfied by Military Basis Training)</b>		<b>3 SH</b>
FN C170	Nutrition	3
FN C175	Nutrition and Aging	3
GERO C120	Professional Issues in Gerontology	3
HLTH C100	Health	3
PSYC C115	Child Growth and Development	3
PSYC C170	Psychology of Aging	3
<b>Global/Multicultural Requirement - Satisfied by completion of one of the following courses:</b> ANTH C100; ARAB C180A; ARAB C180B, ART C100, ARTC C101, ART C105, ENGL C145, HUM C110, PHIL C100, HIST C160, HIST C165, HIST C180, HIST C185, HSVC C100, SPAN C180A or SPAN C180B. <b>Course credit may apply towards Groups C or D above.</b>		<b>2.5 SH</b>
<b>Free Electives-</b> May be satisfied by Military credit, various CLEP and DSST exams, previous college credit, or any Coastline course.		<b>19.5 SH</b>
<b>Total Credits Required to Complete the Degree</b>		<b>60 SH</b>