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## GENERAL STUDIES: EMPHASIS IN STEM FUNDAMENTALS

The Associate in Arts in General Studies with an emphasis in STEM Fundamentals is a local degree intended for students who are exploring STEM majors and professions. This area of emphasis allows students to sample various STEM fields by taking introductory mathematics, science, engineering, or computer science courses to help them choose a specific major for which there is a local Associate in Science (A.S.) degree, an Associate Degree for Transfer (ADT), or University of California Transfer Pathways (UCTP) degree. In addition, this degree can also be used by students to prepare for transfer in majors at CSU, UC, or independent universities where an AS, ADT, or UCTP is not available or not aligned with the preparation required.

Students are required to:

- Complete Oxnard College's General Education requirements to include areas 1-7 or the California General Education Transfer Curriculum (Cal-GETC).
- Complete a minimum of 5 courses in the STEM Fundamentals area
  of emphasis to include a minimum of 18 units. Each course in the
  area of emphasis must be completed with a grade of "C" or better (or
  a "P").
- Complete a minimum of 60 degree-applicable units. Students intending to transfer will need to complete 60 CSU or UC transferable units.
- 4. Complete requirements in scholarship (2.0 minimum cumulative degree-applicable GPA).
- Complete a minimum of 12 semester units in residence within the Ventura County Community College District.

**NOTE:** Students planning to transfer to a four-year university are advised to choose courses that meet the lower division major preparation and general education requirements for their chosen university in consultation with a college counselor.

Students will select a minimum of **5 courses** (a minimum of 18 units) from the area of emphasis in STEM Fundamentals courses listed below.

Course ID	Title	Units/ Hours
ANAT R101	General Human Anatomy	4
ANTH R101	Introduction to Biological Anthropology	3
or ANTH R101H	Honors: Introduction to Biological Anthropolo	ogy
ANTH R101L	Introduction to Biological Anthropology Lab	1
ANTH R118	Introduction to Forensic Science	3
AST R101	Introduction to Astronomy	3
AST R101L	Astronomy Laboratory	1
BIOL R100	Marine Biology	3
BIOL R100L	Marine Biology Laboratory	1
BIOL R101	General Biology	3
or BIOL R101H	Honors: General Biology	
BIOL R101L	General Biology Laboratory	1
BIOL R120	Principles of Biology I	4

BIOL R122 Principles of Biology II Aboratory 1 BIOL R125L Principles of Biology II Laboratory 1 BIOL R155 Principles of Botany 3 BIOL R155L Principles of Botany Laboratory 1 BIOL R170 Biological Marine Resource Management 1 CHEM R104 General, Organic, and Biological Chemistry 5 CHEM R110 Elementary Chemistry 5 CHEM R111 Elementary Organic and Biological Chemistry 6 CHEM R112 General Chemistry I 5 CHEM R120 General Chemistry II 5 CHEM R130 Organic Chemistry II 5 CHIT R101 IT Essentials 3 CNIT R101 Programming Essentials in Python 3 CNIT R170 Introduction to Artificial Intelligence 3 CS R131 Programming Concepts and Methodology I 3 ENGR R101 Introduction to Environmental Science 2 ESSM R100 Introduction to Environmental Science 2 ESSM R100 Introduction to Environmental Science 2 ESSM R100 Introduction to Environmental Science 3 ESRM R100 Introduction to Weather and Climate 3 GEOG R101 Physical Geography Laboratory 1 GEOG R101 Physical Geology Laboratory 1 GEOG R101 Physical Geology Laboratory 1 GEOL R101 Physical Geology Laboratory 1 GEOL R103 Introduction to Oceanography 3 GEOL R104 Historical Geology Laboratory 1 GEOL R103 Introduction to Oceanography 3 GEOL R104 Historical Geology Laboratory 1 GEOL R105 Earth Science with Laboratory 4 GEOL R107 Earth Science with Laboratory 4 GEOL R114 Historical Geology Laboratory 1 GEOL R114 Geology Introduction to Oceanography Introduction to Oceanography Introduction Oceanography Introductio	BIOL R120L	Principles of Biology I Lab: Intro to Cellular and Molecular Biology	1
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GEOL R121 Earth Science with Laboratory 4 GEOL R130 Environmental Geology 3 MATH R115 College Algebra 4 MATH R116 College Trigonometry 3 MATH R117 Precalculus and Trigonometry 6 MATH R120 Calculus with Analytic Geometry I 5 MATH R121 Calculus with Analytic Geometry II 5 MICR R100 Principles of Microbiology 3 MICR R100L Principles of Microbiology Laboratory 2 MST R100 Marine Biology 3 MST R100L Marine Biology Laboratory 1 MST R103 Introduction to Oceanography 3 MST R103L Introduction to Oceanography Laboratory 1 PHSC R170 Concepts in Physical Science 4 PHSO R101 Human Physiology 5 PHYS R101 College Physics 1 4 PHYS R102L College Physics 2 Laboratory 1 PHYS R102L College Physics 2 Laboratory 1 PHYS R102L Physics with Calculus 1	GEOL R114	Historical Geology	3
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MATH R116 College Trigonometry 3 MATH R117 Precalculus and Trigonometry 6 MATH R120 Calculus with Analytic Geometry I 5 MATH R121 Calculus with Analytic Geometry II 5 MICR R100 Principles of Microbiology 3 MICR R100L Principles of Microbiology Laboratory 2 MST R100 Marine Biology 3 MST R100L Marine Biology Laboratory 1 MST R103 Introduction to Oceanography 3 MST R103L Introduction to Oceanography Laboratory 1 PHSC R170 Concepts in Physical Science 4 PHSO R101 Human Physiology 5 PHYS R101 College Physics 1 4 PHYS R101L College Physics 2 1 PHYS R102L College Physics 2 Laboratory 1 PHYS R102L Physics with Calculus 1 5	GEOL R130	Environmental Geology	3
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MATH R121 Calculus with Analytic Geometry II 5 MICR R100 Principles of Microbiology 3 MICR R100L Principles of Microbiology Laboratory 2 MST R100 Marine Biology 3 MST R100L Marine Biology Laboratory 1 MST R103 Introduction to Oceanography 3 MST R103L Introduction to Oceanography Laboratory 1 PHSC R170 Concepts in Physical Science 4 PHSO R101 Human Physiology 5 PHYS R101 College Physics 1 4 PHYS R101L College Physics 1 Laboratory 1 PHYS R102 College Physics 2 4 PHYS R102L College Physics 2 Laboratory 1 PHYS R102L Physics with Calculus 1 5	MATH R117	Precalculus and Trigonometry	6
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MST R100 Marine Biology 3 MST R100L Marine Biology Laboratory 1 MST R103 Introduction to Oceanography 3 MST R103L Introduction to Oceanography Laboratory 1 PHSC R170 Concepts in Physical Science 4 PHSO R101 Human Physiology 5 PHYS R101 College Physics 1 4 PHYS R101L College Physics 1 Laboratory 1 PHYS R102 College Physics 2 4 PHYS R102L College Physics 2 Laboratory 1 PHYS R102L Physics with Calculus 1 5	MICR R100	Principles of Microbiology	3
MST R100L Marine Biology Laboratory 1 MST R103 Introduction to Oceanography 3 MST R103L Introduction to Oceanography Laboratory 1 PHSC R170 Concepts in Physical Science 4 PHSO R101 Human Physiology 5 PHYS R101 College Physics 1 4 PHYS R101L College Physics 1 Laboratory 1 PHYS R102 College Physics 2 4 PHYS R102L College Physics 2 Laboratory 1 PHYS R102L Physics with Calculus 1 5	MICR R100L	Principles of Microbiology Laboratory	2
MST R103 Introduction to Oceanography 3 MST R103L Introduction to Oceanography Laboratory 1 PHSC R170 Concepts in Physical Science 4 PHSO R101 Human Physiology 5 PHYS R101 College Physics 1 4 PHYS R101L College Physics 1 Laboratory 1 PHYS R102 College Physics 2 4 PHYS R102L College Physics 2 Laboratory 1 PHYS R102L Physics with Calculus 1 5	MST R100	Marine Biology	3
MST R103L Introduction to Oceanography Laboratory 1 PHSC R170 Concepts in Physical Science 4 PHSO R101 Human Physiology 5 PHYS R101 College Physics 1 4 PHYS R101L College Physics 1 Laboratory 1 PHYS R102 College Physics 2 4 PHYS R102L College Physics 2 Laboratory 1 PHYS R102L Physics 2 Laboratory 1 PHYS R102L Physics with Calculus 1	MST R100L	Marine Biology Laboratory	1
PHSC R170 Concepts in Physical Science 4 PHSO R101 Human Physiology 5 PHYS R101 College Physics 1 4 PHYS R101L College Physics 1 Laboratory 1 PHYS R102 College Physics 2 4 PHYS R102L College Physics 2 Laboratory 1 PHYS R102L Physics with Calculus 1 5	MST R103	Introduction to Oceanography	3
PHSO R101 Human Physiology 5 PHYS R101 College Physics 1 4 PHYS R101L College Physics 1 Laboratory 1 PHYS R102 College Physics 2 4 PHYS R102L College Physics 2 Laboratory 1 PHYS R102L Physics with Calculus 1 5	MST R103L	Introduction to Oceanography Laboratory	1
PHYS R101 College Physics 1 4 PHYS R101L College Physics 1 Laboratory 1 PHYS R102 College Physics 2 4 PHYS R102L College Physics 2 Laboratory 1 PHYS R102L Physics with Calculus 1 5	PHSC R170	Concepts in Physical Science	4
PHYS R101L College Physics 1 Laboratory 1 PHYS R102 College Physics 2 4 PHYS R102L College Physics 2 Laboratory 1 PHYS R121 Physics with Calculus 1 5	PHSO R101	Human Physiology	5
PHYS R102 College Physics 2 4 PHYS R102L College Physics 2 Laboratory 1 PHYS R121 Physics with Calculus 1 5	PHYS R101	College Physics 1	4
PHYS R102L College Physics 2 Laboratory 1 PHYS R121 Physics with Calculus 1 5	PHYS R101L	College Physics 1 Laboratory	1
PHYS R121 Physics with Calculus 1 5	PHYS R102	College Physics 2	4
	PHYS R102L	College Physics 2 Laboratory	1
PHYS R122 Physics with Calculus 2 5	PHYS R121	Physics with Calculus 1	5
	PHYS R122	Physics with Calculus 2	5

PHYS R131	Physics for Scientists and Engineers 1	5
PHYS R132	Physics for Scientists and Engineers 2	5
PHYS R133	Physics for Scientists and Engineers 3	5
PSY R105	Introduction to Physiological Psychology	3
STAT C1000	Introduction to Statistics	4
or STAT C1000H	Introduction to Statistics - Honors	
Total Required Major Units		
Oxnard College General Education		
Double-counted Units		
Free Electives Required		
Total Units Required for the A.A. Degree		
OR		
Total Required Major Units		
Cal-GETC		34
Double-Counted Units		
Free Electives Required		
Total Units Required for the A.A. Degree		

- Utilize critical thinking skills in evaluating reports of scientific information regarding source, bias, and the scientific method.
- Demonstrate an understanding and appreciation of the scientific method
- Express an understanding of the relationships between science and other human activities which may include recognizing components of scientific decision making and apply personal and social values within the process of decision making in scientific endeavors.
- Apply appropriate quantitative and qualitative methods to interpret and analyze pertinent data.