

ASSOCIATE IN SCIENCE TRANSFER - GENERAL (AST1) (PLAN CODE: LRST1AS)

Academic Plans, known as programs, include an overview description and a summary of program requirements. You can search the online catalog via the Academic Plan links on the right for a desired program or a specific course information.

Code	Title	Credits/ Units
General Education Requirements		
<i>Communication Skills</i>		
ENGL& 101	English Composition I	5
<i>Quantitative Skills</i>		
MATH& 151	Calculus I ¹	5
MATH& 152	Calculus II ²	5
<i>Health & Physical Education</i>		
Select one option (https://catalog.clark.edu/degree-certificate-requirements/transfer-degree-distribution-list/#health-physical-education)		3
<i>Humanities (HA) (HB) and Social Sciences (SS) course(s)</i>		
Humanities (HA) Course (https://catalog.clark.edu/degree-certificate-requirements/transfer-degree-distribution-list/#humanities)		5
Social Sciences (SS) Course (https://catalog.clark.edu/degree-certificate-requirements/transfer-degree-distribution-list/#social-sciences)		5
Select an additional five credits/units from Humanities (HA) or (HB) or Social Science (SS) courses (https://catalog.clark.edu/degree-certificate-requirements/transfer-degree-distribution-list/)		5
Pre-major Program Requirements ³		
<i>General Chemistry Sequence</i>		
CHEM& 141 & CHEM& 151	General Chemistry I and General Chemistry Laboratory I	5
CHEM& 142 & CHEM& 152	General Chemistry II and General Chemistry Laboratory II	5
CHEM& 143 & CHEM& 153	General Chemistry III and General Chemistry Laboratory III	6
<i>Additional Sequence</i>		
Select one sequence from the following:		15
Biology Sequence (BIOL& 221 / BIOL& 222 / BIOL& 223)		
Physics Sequence (100 level)(non-calculus based)		
Physics Sequence (200 level)(calculus based)		
<i>Additional mathematics course(s)</i> ⁴		
MATH& 153	Calculus III	5
or MATH& 146 Introduction to Stat		
<i>Additional requirements for intended major</i> ⁵		
Select 2-3 courses from the following list, 10-15 units total are required:		10-15
BIOL 101	Environ Biol Conf/Lab	
BIOL 105	Small World Antibiotics Research 1	
BIOL 139	Introduction to Wildlife	
BIOL 140	Mammals of The Northwest	

BIOL 141	Birds of The Pacific Northwest	
BIOL 142	Freshwater Fishes of The Pacific Northwest	
BIOL 145	Reptiles & Amphibians of The Pacific NW	
BIOL 167	Human Genetics	
BIOL 208	Field Studies In Biology	
BIOL& 221	Majors Ecology/Evolution	
BIOL& 222	Majors Cell/Molecular	
BIOL& 223	Majors Organismal Phys	
BIOL 224	Flowering Plants of The Pacific Northwest	
BIOL& 241	Human Anatomy and Physiology I	
BIOL& 242	Human Anatomy and Physiology II	
BIOL& 251	Human A & P I	
BIOL& 252	Human A & P II	
BIOL& 253	Human A & P III	
BIOL& 260	Microbiology	
CHEM& 241 & CHEM& 251	Organic Chemistry I and Organic Chemistry Laboratory I	
CHEM& 242 & CHEM& 252	Organic Chemistry II and Organic Chemistry Laboratory II	
CHEM& 243 & CHEM& 253	Organic Chemistry III and Organic Chemistry Laboratory III	
ENVS 218	Introduction to Ecological Restoration	
GEOL 102	Intro to Geology II Lab	
GEOL 218	Field Studies In Geology	
GEOL& 101	Introduction to Physical Geology	
MATH 215	Linear Algebra	
MATH 221	Differential Equations	
MATH& 254	Calculus IV	
PHYS& 134 & PHYS& 124	General Physics I and General Physics Lab I	
PHYS& 135 & PHYS& 125	General Physics II and General Physics Lab II	
PHYS& 136 & PHYS& 126	General Physics III and General Physics Lab III	
PHYS& 241 & PHYS& 231	Engineering Physics I and Engineering Phys Lab I	
PHYS& 242 & PHYS& 232	Engineering Physics II and Engineering Phys Lab II	
PHYS& 243 & PHYS& 233	Engineering Physics III and Engineering Phys Lab III	
Remaining Credits/Units:		
Sufficient additional college-level credits/units so that the total credits/units earned are at least 90 term credits/units ⁶		6-11
Total Credits/Units		90

¹ Calculus I (MATH& 151) requires the successful completion of both Trigonometry (MATH 103) and College Algebra (MATH 110/MATH 111), or recommending score on an approved placement test prior to registration. These prerequisite courses can be used to fulfill elective requirements within the Associate in Science (AS) degree program.

² Or select math courses that have MATH& 152 as a prerequisite.

³ Must consult with faculty or advising to pick the correct sequences.

⁴ Check with chosen 4-year school.

⁵ Preferably a 3-term sequence; check with chosen 4-year school regarding course selection to better prepare for major.

⁶ These remaining credits/units may include prerequisites for major courses, additional major coursework, or specific general education or other university requirements as approved by the advisor. A maximum of five (5) General Elective (GE) credits/units will apply.

Program Outcomes

Program outcomes are overarching skills that are emphasized and reinforced throughout several courses in a specific program; they are measurable statements that define what students should know or be able to do by the end of a certificate or degree at Clark College. After successful completion of this program, students will be able to:

- Apply a method of scientific inquiry, valid to the natural sciences, to evaluate claims about the natural world. (GE)
- Articulate well-considered ideas and written claims to an academic audience, using effective rhetorical techniques, properly credited evidence, and a command of Standard English. (GE)
- Demonstrate progress toward healthier behaviors. (GE)
- Interpret the human experience, within appropriate global and historical contexts, through evaluation, analysis, creation, or performance. (GE)
- Obtain, evaluate, and ethically use information. (GE)
- Analyze patterns of power, privilege, and inequity in the United States. (GE)
- Evaluate, analyze, and explain events, behaviors, and institutions using perspectives and methods in the Social Sciences. (GE)
- Apply communication theory to demonstrate effective oral communication skills.(GE)
- Demonstrate and clearly explain an effective strategy to solve a quantitative problem. (GE)
- Apply scientific methodologies to develop and answer questions about the natural world.
- Demonstrate understanding of the derivative as an instantaneous rate of change and the definite integral as a limit of a sum.
- Analyze and solve multi-step problems using techniques through single-variable calculus.
- Acquire scientific information from appropriate sources to analyze issues, claims or situations.

Program maps are a suggested academic plan and should not be used in the place of regular academic advising appointments. Your student entry method, placement, course availability, and program requirements are subject to change and transfer credit(s)/unit(s) may change your map/plan.

To view the current suggested map for your program please visit our website <https://programmmap.clark.edu/academics> (<https://programmmap.clark.edu/academics/>)