

SCIENCE, A.S.

This degree will help prepare students to enter the Nursing or Diagnostic Medical Sonography programs.

AS.SCI

Program Map

Design Your Future!

Begin by exploring MSJC program maps to find career or transfer opportunities. Program maps show the recommended course sequence that leads to graduation or transfer. The maps were developed by program experts to give you the skills and knowledge you need to succeed.

- **Starting in Spring?** Choose Fall Semester 1 courses.
- **Are you a part-time student?** Start Fall Semester 1 courses and follow the course sequence.

MSJC General Education Option A

Pre-Diagnostic Medical Sonography: MSJC

Fall Semester 1		Units
ENGL-101	College Composition	3
MATH-105	College Algebra	4
AH-105	Medical Terminology	3
BIOL-100	Human Biology	4
Units		14
Spring Semester 1		
PS-101	Introduction to American Government and Politics	3
PSYC-101	Introduction to Psychology	3
SPAN-101	Elementary Spanish I	4
ANAT-101	Human Anatomy & Physiology I	4
Units		14
Fall Semester 2		
NUTR-101	Introduction to Nutrition Science	3
SPAN-102	Elementary Spanish II	4
COMM-103	Interpersonal Communication	3
ANAT-102	Human Anatomy & Physiology II	4
Select one of the following:		3
PS/ETHS-103	Ethnic Politics in America	
ETHS-112	Introduction to Chicana/o/x Studies	
ETHS/SJS-113	Introduction to Black Studies	
HIST/ETHS-160	Black History in the American Context	
LIT/ETHS-240	American Indian Literature (formerly ENGL-240)	
LIT/ETHS-275	Latinx/Chicanx Literature	
LIT/ETHS-280	Multiethnic Literature (formerly ENGL-280)	
ANTH/HIST-121	Indigenous Peoples of California	
Units		17
Spring Semester 2		
SOCI-101	Principles of Sociology	3
ANTH-102	Cultural Anthropology	3

PSYC-103	Human Development	3
HS-121	Fundamentals of Healthful Living	3
PHY-100	Physical Science in Modern Society (formerly Conceptual Physics)	3
Units		15
Total Units		60

Notes: Language Requirement: Some CSU's have an Intermediate Language Proficiency requirement that can be met by completion of 4 years of high school Foreign Language with a grade of C or better, or by completing up to the equivalent of MSJC's ASL-201 American Sign Language III (formerly ASL-103), FREN-201 Intermediate French I, or SPAN-201 Intermediate Spanish I.

Pre-Nursing: MSJC

Fall Semester 1		Units
ENGL-101	College Composition	3
MATH-140	Introduction to Statistics	3
CHEM-107	Chemistry of Life	5
NUTR-101	Introduction to Nutrition Science	3
Units		14
Spring Semester 1		
ANAT-101	Human Anatomy & Physiology I	4
COMM-100	Public Speaking	3
SPAN-101	Elementary Spanish I	4
or ASL-100	or American Sign Language I	
ENGL-103	Critical Thinking and Writing	3
Units		14
Summer 1		
PSYC-101	Introduction to Psychology	3
PS-101	Introduction to American Government and Politics	3
Units		6
Fall Semester 2		
ANAT-102	Human Anatomy & Physiology II	4
SPAN-102	Elementary Spanish II	4
or ASL-101	or American Sign Language II	
Select two of the following:		6
PS/ETHS-103	Ethnic Politics in America	
ETHS-112	Introduction to Chicana/o/x Studies	
ETHS/SJS-113	Introduction to Black Studies	
HIST/ETHS-160	Black History in the American Context	
LIT/ETHS-240	American Indian Literature (formerly ENGL-240)	
LIT/ETHS-275	Latinx/Chicanx Literature	
LIT/ETHS-280	Multiethnic Literature (formerly ENGL-280)	
ANTH/HIST-121	Indigenous Peoples of California	
Units		14
Spring Semester 2		
BIOL-125	Microbiology	4
HIST-111	U.S. History to 1877	3
or HIST-112	or U.S. History Since 1865	
PSYC-103	Human Development	3

ANTH-102	Cultural Anthropology	3
Units		13
Total Units		61

Notes: For students who did not meet the LOTE requirement in high school, they may fulfill Area 6 by demonstrating proficiency by completing ASL-100 American Sign Language I, FREN-101 Elementary French I or SPAN-101 Elementary Spanish I with a grade C or better. Languages other than English for Native Speakers are also acceptable for meeting this requirement.

Note: AREA G (Math Competency) can be demonstrated by a high school math course at or above the level of Algebra 2 with a grade of C or better.

Requirements

An Associate Degree in this program requires students to complete MSJC's local General Education, Option A, by fulfilling all general education areas. In addition, students must complete all major requirements and complete an overall total of 60 degree applicable units with a minimum 2.0 GPA.

In addition to the required core, students must choose and complete one of the two options (Pre-Nursing or Pre-Diagnostic Medical Sonography) for a total of 19-20 units. Students must also complete all MSJC General Education Option A requirements (a total of 60 units) for the Associate of Science degree in Science.

Course	Title	Credits
MSJC General Education Option A (https://catalog.msjc.edu/degrees-certificates-curricula/general-education-option-a/)		24
Required Science Courses		8
Pre-Nursing Option		11-12
Pre-Diagnostic Medical Sonography Option		12
Electives (as needed to reach 60 units)		

Course	Title	Credits
Required Courses		
Choose one option:		
ANAT-101	Human Anatomy & Physiology I	4
ANAT-102	Human Anatomy & Physiology II	4
Pre-Nursing Option		11-12
BIOL-125 or BIOL-125H	Microbiology Honors Microbiology	
Select one of the following:		
CHEM-100	Introduction to Chemistry	
CHEM-101 or CHEM-101H	General Chemistry I Honors General Chemistry I	
CHEM-107	Chemistry of Life	
One additional Option A, Area A science course totaling 3 units or more.		
Pre-Diagnostic Medical Sonography Option		12
AH-105	Medical Terminology	
PHY-100	Physical Science in Modern Society (formerly Conceptual Physics)	

Two additional Option A, Area A science courses totaling 6 units or more.

Career Exploration

Discover information about careers that interest you!

1. Take a **Career Quiz** (<https://msjc.emsicc.com/assessment/>) to learn about yourself and receive career suggestions based on your interests.
2. Search available **in-demand jobs** (<https://msjc.emsicc.com/browse-careers/>) in your career areas of interest and find up-to-date salaries and education requirements.
3. Find the **MSJC Program** (<https://msjc.emsicc.com/browse-programs/>) that connects your interests to a career.

Note: There are no guaranteed positions for students completing these programs. Education and work experience required will vary by employer. The salary and benefits for specific occupations will be dependent on work experience, education, background, and employer.