

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 a career or transfer opportunities. Program maps show the recommended sequence of courses that lead 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-DMS - Diagnostic Medical Sonography

Fall Semester 1		Units
ENGL-101	College Composition (formerly Freshman Composition)	4
MATH-105	College Algebra	4
AH-105	Medical Terminology	3
BIOL-100	Human Biology	4
Units		15
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 (formerly Nutrition and Foods)	3
SPAN-102	Elementary Spanish II	4
COMM-103	Interpersonal Communication	3
ANAT-102	Human Anatomy & Physiology II	4
ART-104	World Art	3
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		61

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 Option B: CSU

Fall Semester 1		Units
ENGL-101	College Composition (formerly Freshman Composition)	4
MATH-140	Introduction to Statistics	3
PSYC-101	Introduction to Psychology	3
SOCI-101	Principles of Sociology	3
NUTR-101	Introduction to Nutrition Science (formerly Nutrition and Foods)	3
Units		16
Spring Semester 1		
ANAT-101	Human Anatomy & Physiology I	4
CHEM-107	Chemistry of Life	5
COMM-100	Public Speaking	3
ENGL-103	Critical Thinking and Writing	3
Units		15
Fall Semester 2		
ANAT-102	Human Anatomy & Physiology II	4
SPAN-101	Elementary Spanish I	4
ART-104	World Art	3
ANTH-102	Cultural Anthropology	3
PSYC-103	Human Development	3
Units		17
Spring Semester 2		
BIOL-125	Microbiology	4
HIST-111	U.S. History to 1877	3
or HIST-112	or U.S. History Since 1865	
SPAN-102	Elementary Spanish II	4
PS-101	Introduction to American Government and Politics	3
Units		14
Total Units		62

Pre-Nursing: MSJC Option C: UC

Fall Semester 1		Units
ENGL-101	College Composition (formerly Freshman Composition)	4
MATH-211	Analytic Geometry and Calculus I	4
CHEM-101	General Chemistry I	5
PSYC-101	Introduction to Psychology	3
Units		16
Spring Semester 1		
ANAT-101	Human Anatomy & Physiology I	4
CHEM-102	General Chemistry II	5
ENGL-103	Critical Thinking and Writing	3
ART-104	World Art	3
Units		15

Fall Semester 2		
ANAT-102	Human Anatomy & Physiology II	4
CHEM-112	Organic Chemistry I	5
PHIL-105	Introduction to Ethics	3
ANTH-102	Cultural Anthropology	3
Units		15

Spring Semester 2		
BIOL-125	Microbiology	4
HIST-111 or HIST-112	U.S. History to 1877 or U.S. History Since 1865	3
MATH-140	Introduction to Statistics	3
BIOL-134	Human Heredity and Evolution	3
Units		13

Fall Semester 3		
BIOL-150	General Biology I	4
SPAN-101	Elementary Spanish I	4
COMM-100	Public Speaking	3
Units		11

Spring Semester 3		
BIOL-151	General Biology II	4
SPAN-102	Elementary Spanish II	4
PS-101	Introduction to American Government and Politics	3
Units		11
Total Units		81

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.

Pre-Nursing: MSJC/LOMA LINDA

Fall Semester 1		Units
ENGL-101	College Composition (formerly Freshman Composition)	4
MATH-140	Introduction to Statistics	3
PSYC-101	Introduction to Psychology	3
SOCI-101	Principles of Sociology	3
NUTR-101	Introduction to Nutrition Science (formerly Nutrition and Foods)	3
Units		16

Spring Semester 1		
ANAT-101	Human Anatomy & Physiology I	4
CHEM-107	Chemistry of Life	5
COMM-100	Public Speaking	3
ENGL-103	Critical Thinking and Writing	3
Units		15

Fall Semester 2		
ANAT-102	Human Anatomy & Physiology II	4
SPAN-101	Elementary Spanish I	4
ART-104	World Art	3

PS-101	Introduction to American Government and Politics	3
PSYC-103	Human Development	3
Units		17

Spring Semester 2		
BIOL-125	Microbiology	4
PHIL-101	Introduction to Philosophy I	3
SPAN-102	Elementary Spanish II	4
PE-119B	Intermediate Fitness Walking	2
DAN-201	Dances of the World	1
Units		14
Total Units		62

Requirements

An Associate Degree in this program requires students to follow MSJC's General Education, Option A and complete all general education areas, 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
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Pre-Nursing Option	11-12
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Pre-Diagnostic Medical Sonography Option	12
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Electives (as needed to reach 60 units)

Course	Title	Credits
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Required Courses

Choose one option:

ANAT-101	Human Anatomy & Physiology I	4
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ANAT-102	Human Anatomy & Physiology II	4
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Pre-Nursing Option	11-12
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BIOL-125	Microbiology	
or BIOL-125H	Honors Microbiology	

Select one of the following:

CHEM-100	Introduction to Chemistry	
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CHEM-101	General Chemistry I	
or CHEM-101H	Honors General Chemistry I	

CHEM-107	Chemistry of Life	
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One additional Option A, Area A science course totaling 3 units or more.

Pre-Diagnostic Medical Sonography Option	12
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AH-105	Medical Terminology	
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PHY-100	Physical Science in Modern Society (formerly Conceptual Physics)	
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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.