Biological Sciences

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Life Sciences
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Anatomy & Physiology
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Anthropology
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Biology
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Degree(s)
Transfer:
None
See:
A.A. Liberal Arts - Mathematics & Science Emphasis
Non-Transfer:
None
See A.S. in Science

Certificate(s)
None

Employment Concentration Certificate(s)
None

Program Description

The Biological Sciences program provides students with a comprehensive foundation in the life sciences, promotes environmental awareness and careful stewardship of earth’s resources, and fosters scientific literacy to enable our students to function well in a world increasingly influenced by science and technology. MSJC offers both transfer and non-transfer degrees in the biological sciences, provide prerequisite courses for transfer degree programs at universities, and courses for degree programs at MSJC, and courses that satisfy General Education requirements for students planning to transfer to colleges and universities. Our emphasis is upon delivering high-quality instruction in an inclusive, positive, learning environment that facilitates success for all students.

Transfer Preparation

MSJC offers a range of course work to prepare students to transfer to four-year colleges and universities. Courses that fulfill major requirements for an associate degree in this program might not be the same as those required for transfer into the major at a four year university. All four-year institutions prescribe their own standards for course evaluation and admissions. Prospective transfer students are advised to research careers, degrees and majors in the Career/Transfer Center, access www.assist.org, review the MSJC catalog and meet with a counselor to expedite their transfer plan.

Learning Outcomes

Anatomy & Physiology
• Demonstrate an ability to apply scientific methods in Anatomy and Physiology to predict physiologic responses.
• Demonstrate an understanding of the fundamental chemical nature of physiology.
• Correlate the structure to function of each of the major systems and their organ and tissue components.
• Predict homeostatic responses to physiological imbalances.
• Demonstrate an understanding of structures and their function in reproduction and development.
• Apply the principles of natural selection and evolution to predict genetic outcomes.

Anthropology - See Anthropology

Biology/Life Science
• Explain and appreciate how scientific knowledge is obtained and verified.
• Explore and appreciate the facts and principles concerning heredity, variation and diversity, the cell, evolution and natural selection.
• Explain and appreciate the cycling of matter and the flow of energy in living systems.
• Achieve basic literacy in the language of biology.
• Think critically about issues using their understanding of biology.
• Explore the ethical and social considerations inherent in biology.