Physical Science

Warriors on the Way to STEM
WOW2STEM

Modesto Junior College

Students majoring in Physical Science are interested in a general science degree. Individual programs can be developed by the student in collaboration with an advisor, and can include courses in all of the STEM disciplines.

What can I do with a degree in Physical Science?

The degree in Physical Science is not targeted at specific careers. Instead it prepares students for a wide range of industrial and commercial careers where a demonstrated capacity to analyze a wide variety of problems is more important than specific knowledge.

How can I participate in WOW2STEM?

- **Meet with a STEM counselor each semester at your community college.**
- **Follow a student educational plan (SEP) as outlined by a STEM counselor.**
- **Attend presentations and workshops throughout the year.**
- **Follow application dates and deadlines as directed by the Transfer Advisor and Stanislaus State.**

For more information you may contact:
Iqbal Atwal, Transfer Specialist
209.667.3164
iatwal@csustan.edu
www.csustan.edu/STEM-success

Joseph is a Junior at Stanislaus State. Joseph began his academic career as a first time freshman after graduating from high school. He chose to attend because of the golf team and the beauty of the campus. He had dreams of becoming a golfer. Joseph is a Physics major, soon to be double major in Math. In Spring 2014, Joseph participated in research which involved superconductors.

Physical Science B.S. Roadmap

Prerequisites to Lower-Division Courses	Lower-Division Courses at Modesto Junior College	Major Course Requirements at Stanislaus State
	Choose one Physics sequence:	There is no set program of courses for students seeking a B.A. degree in Physical Science. Instead students, in consultation with their advisor, develop their own program by choosing upper division courses totaling at least 24 units. These courses can be chosen from any of the disciplines in the Physical Science (Physics, Chemistry, Astronomy, and Geology) and Mathematics.
MATH 122 PHYS 142	PHYS 142 (Mechanics, Heat, & Waves) & PHYS 143 (Electricity, Magnetism, Optics, Atomic & Nuclear Structure)	
	or	
PHYS 165 & MATH 171 PHYS 101	PHYS 101 (General Physics: Mechanics) & PHYS 121 (Problem Solving & Technology for Physics 101)	
	or	
PHYS 165 & MATH 171 PHYS 101 & MATH 172	PHYS 101 (General Physics: Mechanics) & PHYS 102 (General Physics: Waves, Thermodynamics & Optics)	
	or	
PHYS 101 & MATH 172 PHYS 103	PHYS 103 (General Physics: Electricity, Magnetism, & Modern Physics) & PHYS 113 (Problem Solving & Technology for Physics 103)	
	or	
PHYS 101 & MATH 172	PHYS 102 (General Physics: Waves, Thermodynamics & Optics) & PHYS 103 (General Physics: Electricity, Magnetism, & Modern Physics)	**Note: Students seeking this major are encouraged to complete lower division courses prior to transferring to Stanislaus State. Students are recommended to meet with a counselor every semester.**
MATH 90 or qualification by the assessment process	CHEM 101 (General Chemistry 1)	
CHEM 101	CHEM 102 (General Chemistry 2)	
MATH 121 & MATH 122 or MATH 161 & MATH 162	MATH 171 (Calculus: First Course)	
MATH 171	MATH 172 (Calculus: Second Course)	