

Fact Sheet: Multidisciplinary Science and Multidisciplinary Studies

What's Offered:

College of Sciences (COS):

Bachelor of Science in Multidisciplinary Science (MDS)

Multidisciplinary Science is designed for future scientists or secondary science teachers, and gives students broad interdisciplinary training across the sciences. Students interested in the research/scientist path should pursue a Concentration in a single science field (physics, geology, chemistry, etc.) Students should follow the Composite Science Certification if planning a career in teaching secondary school science. (*Undergraduates seeking elementary teacher certification must complete the COEHD Interdisciplinary Studies degree – MDS is not appropriate in this context.*)

University College (UC):

Bachelor of Arts in Multidisciplinary Studies (MDST)

Multidisciplinary Studies provides a vehicle to achieve baccalaureate degrees for students whose interests lie in multiple areas. Students complete the University Core Curriculum requirements and take a cohesive set of courses from three different disciplinary areas. This interdisciplinary approach allows students the opportunity to acquire a well-rounded educational background. The objectives are to develop students that have a solid foundation in the content material of three disciplines and are skilled in communication, critical thinking and analysis, investigating and solving problems, managing tasks, and relating to others. (*MDST is not a route to teacher certification at the undergraduate level, but can provide a good foundation to do teacher certification at the post-baccalaureate level.*)

Career Options:

These degree programs offer students the opportunity to prepare for advanced graduate study and for a multitude of careers that will vary based on specialization. *Positions below range entry-level to experienced.*

COS – Multidisciplinary Science Job Titles: Academician/Professor, Research Area Specialist, Laboratory Technician, Associate Scientist; Natural Resource Specialist, Geoscience Technician, Data Scientist; Health Educator, Math Teacher (Algebra, Geometry, Calculus, Etc.), Science Teacher (Geology, Physics, Chemistry, Biology, Anatomy & Physiology, Etc.)

UC – Multidisciplinary Studies Job Titles: Marketing Specialist, Program Coordinator, Administrative Assistant, Recruiting Specialist, Career Counselor, Data Entry Clerk, Customer Service Representative, Youth Prevention Specialist, Leasing Associate, Project Manager, Retail Sales Supervisor, Health Care Appointment Scheduler, After School Counselor, Community Manager, Wildlife Specialist, Dispatcher, Shipping and Distribution Associate, Production Team Member, Event Security, Electronic Field Technician, Merchandiser, Restaurant Manager

Degree Plans:

COS – Multidisciplinary Science

*Gateway Courses, (C- grade or better).

Introduction to Astronomy – AST 1013	Current Research Topics in Physics – PHY 3003
Biosciences I – BIO 1404	Basic Statistics – STA 1053
* Biosciences II – BIO 1414	
Genetics – BIO 2313	Concentration (research/scientist path):
Principles of Ecology (w/ lab)– BIO 3283/3292	Select 21 semester credit-hours of approved electives in biology, chemistry, environmental science, geology, mathematics, and/or physics
Evolution – BIO 3323	
Advanced Physiology – BIO 3413	Composite Science Certification (teaching):
General Chemistry I (w/ lab) – CHE 1103/1121	Models of Teaching in Content Areas – C&I 4203
General Chemistry II (w/ lab)– CHE 1113/1131	Student Teaching: Grades 8-12 – C&I 4646
Analytical Chemistry – CHE 3214	Learning/Dvpmt. in Secondary School Adol. – EDP 3203
Physical Geology (w/ lab) – GEO 1103/1111	Assessment and Evaluation – EDP 4203
Rocks, Fossils, and Global Tectonics – GEO 3004	GEEMS Mathematics/Science I – GEM 1011
Oceanography – GEO 3163	GEEMS Mathematics/Science II – GEM 1021
* Precalculus – MAT 1093	GEEMS Mathematics/Science III – GEM 1031
<u>Select one of the following two options:</u>	Reading & Writing Across Disciplines – RDG 3773
<i>Option One:</i> Algebra-based Physics I (w/ lab) – PHY 1603/1611; Algebra-based Physics II (w/ lab) – PHY 1623/1631	
<i>Option Two:</i> Physics for Scientists & Engineers I (w/ lab) – PHY 1943/1951; Physics for Scientists & Engineers II (w/ lab) – PHY 1963/1971	<i>*if seeking MDS as preparation for a science graduate program, closely follow degree requirements of the chosen science, as those courses are likely to be required by the graduate schools.</i>

UC – Multidisciplinary Studies

Technology Requirement – <u>Select one of the following:</u>	Fields of Study – 48 credit hours in 3 distinct disciplines
Microcomputer Applications – CS 1033	<i>Focus Area One:</i> 18 credit hours, at least 12 upper-division
Business Information Systems Fluency – IS 1403	<i>Focus Area Two:</i> 15 credit hours, at least 9 upper-division
	<i>Focus Area Three:</i> 15 credit hours, at least 9 upper-division
Communication Requirement – <u>Select one of the following:</u>	<i>*at least one area must be COLFA or COS; only one can be COB</i>
Introduction to Communication – COM 1043	
Business and Professional Speech – COM 1053	Sr. Seminar for Multidisciplinary Studies – MDS 4983
Public Speaking – COM 2113	
Technical Writing – ENG 2413	Free Electives: 21 semester hours, at least 6 upper-division