

- WELD 165 Visual Inspection Level I** (1, 2)
 ½ or 1 hour lecture - 2 or 3 hours laboratory
Transfer acceptability: CSU
 Teaches visual inspection of welds, the equipment used during visual inspection, proper inspection procedure, and common discontinuities in the surface of a weld.
- WELD 166 Visual Inspection Level II** (1, 2)
 ½ or 1 hour lecture - 2 or 3 hours laboratory
Transfer acceptability: CSU
 Teaches level II visual inspection of welds, the equipment used during visual inspection, proper inspection procedure, and common discontinuities in the surface of a weld.
- WELD 167 Visual Inspection Level III** (1, 2)
 ½ or 1 hour lecture - 2 or 3 hours laboratory
Transfer acceptability: CSU
 Advanced studies in visual equipment, methods, and evaluation.
- WELD 170 Liquid Penetrant Testing Level I** (1, 2)
 ½ or 1 hour lecture - 2 or 3 hours laboratory
Transfer acceptability: CSU
 Provides training in the principle of liquid penetrant testing. Topics include discussion and demonstration of processing, testing methods, and equipment for Level I.
- WELD 171 Liquid Penetrant Testing Level II** (1, 2)
 ½ or 1 hour lecture - 2 or 3 hours laboratory
Transfer acceptability: CSU
 Provides training in the selection of the appropriate testing method and evaluations of indications.
- WELD 172 Liquid Penetrant Testing Level III** (1, 2)
 ½ or 1 hour lecture - 2 or 3 hours laboratory
Transfer acceptability: CSU
 Advanced training in liquid penetrant testing. Topics will include how penetrant works; the differences between liquid testing methods; the equipment used; and interpretation/evaluation of discontinuities.
- WELD 175 Magnetic Particle Testing Level I** (1, 2)
 ½ or 1 hour lecture - 2 or 3 hours laboratory
Transfer acceptability: CSU
 Principles of magnets and magnetic fields and laws of magnetism and their effects on discontinuities. Methods of Magnetic Particle Inspection and types of discontinuities will be taught.
- WELD 176 Magnetic Particle Testing Level II** (1, 2)
 ½ or 1 hour lecture - 2 or 3 hours laboratory
Transfer acceptability: CSU
 Provides theory lectures and practical training on magnetic particle testing, performing calibrations, measuring samples, and performing non-destructive testing using magnetic particle theory. Encourages group discussions around practical problems and provides field expertise on how to resolve them. Meets or exceeds requirements for ASNT Magnetic Particle Testing Level II.
- WELD 177 Magnetic Particle Testing Level III** (1, 2)
 ½ or 1 hour lecture - 2 or 3 hours laboratory
Transfer acceptability: CSU
 Provides basic knowledge into how to effectively perform magnetic particle inspection. Emphasis is placed on the properties of electricity and magnetism, understanding longitudinal and circular magnetism, use of central conductor, coil and direct magnetization equipment, and the use of yokes and prods. In addition to covering the theoretical aspects of this method, provides demonstrations and practical hands-on laboratory time on both portable and stationary equipment. Meets or exceeds ASNT Magnetic Particle testing Level III.
- WELD 180 Ultrasonic Testing Level I** (1, 2)
 ½ or 1 hour lecture - 2 or 3 hours laboratory
Transfer acceptability: CSU
 Provides knowledge and skills in the setup, calibration, and inspection of materials using ultrasonic testing equipment. Fundamental concepts and terminology of ultrasonics and mathematical relationships that exist between them. Meets or exceeds the content recommended by the American Society for Nondestructive Testing for Level I.
- WELD 181 Ultrasonic Testing Level II** (1, 2)
 ½ or 1 hour lecture - 2 or 3 hours laboratory
Transfer acceptability: CSU
 Provides knowledge and skills in the setup, calibration, and inspection of materials using ultrasonic testing equipment. Fundamental concepts and terminology of ultrasonics and mathematical relationships that exist between them. Meets or exceeds the content recommended by the American Society for Nondestructive Testing for Level II.
- WELD 182 Ultrasonic Testing Level III** (1, 2)
 ½ or 1 hour lecture - 2 or 3 hours laboratory
Transfer acceptability: CSU
 Advanced topics and training in ultrasonic testing of materials.
- WELD 183 Ultrasonic Phased Array Inspection Level I** (1, 2)
 ½ or 1 hour lecture - 2 or 3 hours laboratory
Transfer acceptability: CSU
 Provides training in advanced ultrasonic inspection of welds using straight-beam, angle-beam, and phased array ultrasonic testing.
- WELD 184 Ultrasonic Phased Array Inspection Level II** (1-2)
 ½ or 1 hour lecture - 2 or 3 hours laboratory
Transfer acceptability: CSU
 Provides training in advanced ultrasonic inspection of welds using straight-beam, angle-beam, and phased array ultrasonic testing.
- WELD 185 Ultrasonic Phased Array Inspection Level III** (1-2)
 ½ or 1 hour lecture - 2 or 3 hours laboratory
Transfer acceptability: CSU
 Provides training in advanced ultrasonic inspection of welds using straight-beam, angle-beam, and phased array ultrasonic testing.
- WELD 196 Special Problems in Welding** (1, 2, 3)
 3, 6, or 9 hours laboratory
Prerequisite: A minimum grade of 'C' in WELD 100, or concurrent enrollment in WELD 100
Transfer acceptability: CSU
 Designed to provide enrichment of an area of concentration in welding, generally research in nature. Content to be determined by the need of the student under signed contract with the instructor.
- WELD 197 Welding Technology Topics** (.5 - 3)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
 Topics in Welding Technology. See Class Schedule for specific topic offered. Course title will designate subject covered.

Women's Studies

Contact the Behavioral Sciences Department for further information.
 (760) 744-1150, ext. 2329
 Office: MD-241

Associate in Arts Degrees -

AA Degree requirements are listed in Section 6 (green pages).
 • Women's Studies

PROGRAM OF STUDY

Women's Studies

This major offers the student an opportunity to study women and their contributions from a female perspective. It also provides intensive, interdisciplinary lower-division preparation necessary for pursuing advanced coursework in Women's Studies. Transfer students should consult the four-year college or university catalog for specific requirements.

A.A. DEGREE MAJOR

Program Requirements	Units
SOC 115 Introduction to Women's Studies	3
Electives (Select a minimum of 15 units)	
AIS 165 Native Women in the Americas	3
COMM 105 Race, Gender and Media Effects	3
ENG 280 Women and Literature	3
HIST 130 Women in United States History	3
PSYC/SOC 125 Human Sexuality	3
PSYC 130 Psychology of Women	3
SOC 135 Gender and Society	3
PSYC/SOC 145 Psychology and Sociology of Aging	3
TOTAL UNITS	18

Recommended Electives: ENG 100 and 202 with emphasis in Women's Studies issues.

Zoology (ZOO)

Contact the Life Sciences Department for further information.
(760) 744-1150, ext. 2275
Office: NS-207A

COURSE OFFERINGS

ZOO 100 General Zoology (4) 3 hours lecture - 3 hours laboratory Note: Not open to students with prior credit in ZOO 101 or 101L Transfer acceptability: CSU; UC – No credit if taken after ZOO 101/101L Principles of animal life and body organization. Structural and functional adaptations of major groups of the animal kingdom from protozoans through mammals. This is a general education course intended for non-science majors.	
ZOO 101 General Zoology (Lecture) (3) 3 hours lecture Note: Not open to students with prior credit in ZOO 100 Transfer acceptability: CSU; UC – No credit if taken after ZOO 100 Structural and functional adaptations of major groups of the animal kingdom from protozoans through mammals. ZOO 101L laboratory optional.	
ZOO 101L General Zoology (Laboratory) (1) 3 hours laboratory Prerequisite: A minimum grade of 'C' in ZOO 101, or concurrent enrollment in ZOO 101 Note: Not open to students with prior credit in ZOO 100 Transfer acceptability: CSU; UC – No credit for ZOO 101/101L if taken after 100 Investigations upon living and preserved specimens representative of the major groups of the animal kingdom. This is a general education course intended for non-science majors.	
ZOO 120 Animal Behavior (3) 3 hours lecture Transfer acceptability: CSU; UC Biological basis of behavior including behavior genetics, operation of evolutionary processes on species typical behaviors, behavioral ontogeny, functional organization of nervous systems, animal senses, motivation including hormonal effects on drive, and biorhythms; behavioral ecology including social behavior and social living, reproductive behaviors, homing and migration, antipredatory defenses, feeding strategies, and communication.	
ZOO 135 Biology of Marine Mammals (3) 3 hours lecture Note: Cross listed as BIOL 135 Transfer acceptability: CSU; UC The fundamentals of marine mammal biology are explored. Topics include comparative anatomy, evolution, cladistics, mammalian physiology, ecology and zoogeography, behavior and conservation as they apply to the study of marine mammals.	
ZOO 145 Introduction to Anatomy and Physiology (3) 3 hours lecture Note: Not open to students with prior credit in ZOO 200 or 203 Transfer acceptability: CSU; UC – ZOO 145/145L and BIOL 106 or BIOL 105 combined: maximum credit, 4 units; UC – No credit for ZOO 145/145L if taken after ZOO 203, or 200 Introduction to the structure and function of human body systems in health and disease. Not recommended for those intending to take BIOL 105, 106, ZOO 200 or 203.	
ZOO 145L Introduction to Anatomy and Physiology Laboratory (1) 3 hours laboratory Prerequisite: A minimum grade of 'C' in ZOO 145, or concurrent enrollment in ZOO 145 Transfer acceptability: CSU; UC – ZOO 145/145L and BIOL 106 or BIOL 105 combined: maximum credit, 4 units; UC – No credit for ZOO 145/145L if taken after ZOO 203, or 200 Introduction to the structure and function of human body systems. Includes study of cells, tissues, and human organ systems. Not recommended for those intending to take BIOL 105, 105L, 106, ZOO 200 or 203.	
ZOO 195A Field Study of Marine Invertebrates (1, 1.5, 2, 2.5, 3) ½-1 hours lecture - 1½-7½ hours laboratory Note: Fee charged Transfer acceptability: CSU; UC – ZOO 195A-F combined: maximum credit, 2 courses Extended field study of the fauna of marine intertidal and subtidal habitats of selected geographic regions, with emphasis upon field identification, observation and interpretation of behavioral and ecological interrelationships of animals to their environment and to one another. See Class Schedule for locality to be visited.	
ZOO 195B Field Study of Marine Vertebrates (1, 1.5, 2, 2.5, 3) ½-1 hours lecture - 1½-7½ hours laboratory Note: Fee charged Transfer acceptability: CSU; UC – ZOO 195A-F combined: maximum credit, 2 courses Extended field study fishes and marine reptiles and mammals, with emphasis upon identification, behavior, and adaptations. See Class Schedule for locality to be visited.	
ZOO 195C Field Study of Terrestrial Vertebrates (1, 1.5, 2, 2.5, 3) ½-1 hours lecture - 1½-7½ hours laboratory Note: Fee charged Transfer acceptability: CSU; UC – ZOO 195A-F combined: maximum credit, 2 courses Extended field study of terrestrial mammals, reptiles, and amphibians, emphasizing identification, behavior, adaptations, and ecology. See Class Schedule for locality to be visited.	