



CAREER PLAN OF STUDY: AGRICULTURAL SCIENCE

CAREER CLUSTER: AGRICULTURE, FOOD & NATURAL RESOURCES

CAREER PATHWAY: ANIMAL SYSTEMS

SAMPLE OCCUPATIONS: Animal Geneticist, Aquaculturist, Animal Nutritionist, Animal Scientist, Embryo Technologist, Veterinarian, Agricultural Educator, Equine Manager, Farm Manager, Park Manager, Game and Fish Officer

CERTIFICATION: Beef Quality Assurance

**ANIMAL SYSTEMS
PROGRAM OF STUDY**

CTE Courses offered grades 9-12

| HIGH SCHOOL PLAN OF STUDY | GRADE | Recommended Program of Study | | | | | OTHER REQUIRED COURSES |
|--|--|---|--|---|--------------------------------------|--|---|
| | | CAREER AND TECHNICAL EDUCATION COURSES | ENGLISH (4 Credits) | MATH (4 Credits) | SCIENCE (3 Lab) | SOCIAL STUDIES (3 Credits) | |
| | 9 | AG30 Applied Biological Systems | EN09 - Freshman English | MA27 - Algebra I | SC09 - Essential Elements of Science | SS22 - World History/ Geography | Practical Art - 1 Credit OR ↓ |
| | 10 | **AG31 Animal Science | EN47 - Sophomore English | MA30 - Geometry | SC49 - Biology | | Fine Arts 1 credit |
| | 11 | **AG35 Veterinary Science or AG51 Plant Science | EN48 - Jr. English | MA40 - Algebra II | SC71 - Chemistry | SS35 - American/AZ History | PE - 1 Credit |
| | 12 | CT53 Ag Sciences Internship OR AG51 AG51 Plant Science | EN49 - Sr. English | MA45-PreCalculus OR MA 42 - College Algebra/Trigonometry | | SS51 - Government and SS77 - Principles and Practices of Economics | World Language - 2 Credits university entrance |
| LEGEND | CTE Program of Study (Meets practical art requirement) | | **Dual Enrollment Option - College credit may be available | | | | |
| | Refer to each university's website for specific admission requirements | | | | | | |
| POST SECONDARY | COMMUNITY COLLEGE | | UNIVERSITY PROGRAM | | | TECHNICAL | |
| | Mesa Community College https://www.mesacc.edu/programs/career-pathways/agriculture-food-natural-resources | | Arizona State University https://webapp4.asu.edu/programs/t5/undergrad | | | Carrington College www.carrington.edu/degrees/ | |
| | Arizona Western Community College https://www.azwestern.edu/learning_services/degrees_and_certificates/index.html | | University of Arizona http://directory.arizona.edu/colleges/college-agriculture-life-sciences | | | | |
| | Yavapai Community College www.yc.edu/academics/degrees-and-certificates/ | | Northern Arizona University catalog.nau.edu | | | | |
| Go to www.mpsaz.org/cte/programs for more information on this and other CTE Programs of Study. | | | | | | | |
| CAREER PLANNING LINKS | | | | PROFESSIONAL ORGANIZATION LINKS | | | |
| MPS Career and Technical Education - www.mpsaz.org/cte | | | | American Association for Laboratory Animal Science - www.aalas.org | | | |
| MPS Career Planning System Kuder Navigator - www.mpsaz.kuder.com | | | | American Veterinary Medical Association - www.avma.org | | | |
| MyMPS - www.mpsaz.org/mymps | | | | | | | |