



BIOTECHNOLOGY

- Program of Study -

Career Cluster: Agriculture Food and Natural Resources

Career Pathway: Animal & Plant Systems

This Academic Plan is based upon the state requirements needed for an Advanced Diploma. Academic course names may vary among school districts.

Grade	1 st Course	2 nd Course	3 rd Course	4 th Course	5 th Course	6 th Course (CTE)
9 th Grade	English I	Algebra I	Biology	Health / Computer Literacy	Physical Education	Agriculture Science I
10 th Grade	English II	Geometry	Chemistry or Geoscience	World History	Physical Education	Agriculture Science II
11 th Grade	English III	Algebra II	Science Course or Elective ¹	US History	Foreign Language ² or Elective ¹	Biotechnology
12 th Grade	English IV	Senior Level Math Course	Elective ¹	US Government	Foreign Language ² or Elective ¹	Biotechnology Advanced Studies

¹ Electives may include arts and humanities courses or other career and technical education courses that relate to the program of study.

² Foreign Language courses are recommended if a student is planning on entering a university. (See individual university admission policies)

³ CTE Assessments will be administered during the completion level CTE course.

Career and Technical Student Organizations	Work-Based Learning	CTE Assessments
FFA	Job Shadowing / Internship / Work Experience / Career Days / Career Fairs / Field Trips / Guest Speakers	1) End of Program Technical Assessment for Biotechnology 2) Workplace Readiness Skills Assessment (for Employability Skills Standards)

Postsecondary Options	State Articulation Agreements for CTE College Credit											
College of Southern Nevada / Great Basin College / Nevada State College / Truckee Meadows Community College / University of Nevada, Las Vegas / University of Nevada, Reno / Western Nevada College	<p>Secondary Program Requirements Student must earn the state Certificate of Skill Attainment in Biotechnology.</p> <p>Postsecondary Credit Options</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">College of Southern Nevada</td> <td style="width: 25%;">TBD</td> <td style="width: 25%;">Truckee Meadows Community College</td> <td style="width: 25%;">TBD</td> </tr> <tr> <td>Great Basin College</td> <td>TBD</td> <td>Western Nevada College</td> <td>TBD</td> </tr> </table>				College of Southern Nevada	TBD	Truckee Meadows Community College	TBD	Great Basin College	TBD	Western Nevada College	TBD
College of Southern Nevada	TBD	Truckee Meadows Community College	TBD									
Great Basin College	TBD	Western Nevada College	TBD									

High Wage - High Skill - High Demand Careers	State Recognized Industry Certifications
Diagnostic Technician, Laboratory Technician, Biological Technician, Laboratory Technologist, Veterinary Assistant, Veterinary Technologist, Veterinary Technician, Veterinarian, Research Technician, Research Scientist, Biotechnology Engineer, Biochemist, Bioremediation Specialist	AALAS Certification, ALAT level