

# NorthWest Arkansas Community College

# Associate of Applied Science in General Technology – Biotechnology 2024 Advising Sheet

Student Name:  
Title of Concentration Area:

Student ID #:

60 hrs

The Associates of Applied Science in General Technology Degree Plan enables students to design an individualized program of study to fulfill workforce training goals that cannot be met through the completion of any single degree program presently offered at the college. With the approval of a workforce advisor, the student will select from multiple technical disciplines and develop a program containing a major technical focus and related technical support courses, to include possible PLE credit gained from prior completion of industry recognized credentials and/or experience.

**GENERAL EDUCATION HOURS (15 Credit Hours)**

**ENGLISH COMPOSITION (6 Hours)**

- ENGL 1013 Composition I
- ENGL 1023 Composition II
- OR**
- ENGL 2013 Technical Writing

**MATHEMATICS (3 Hours)**

- Any College Level Math Course (1000 level or above) Subject code: MATH

Dept.:	Number:	Course title:	Hours:
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**DEMONSTRATION OF COMPUTER PROFICIENCY (3 Hours)**

- CISQ 1103 Intro to Computer Information System

**SOCIAL SCIENCE (3 Hours)**

- HIST 2003 History of American People to 1877
- HIST 2013 History of American People from 1877
- PLSC 2003 American National Government
- XXXX XXX3 Social/Behavioral Science Elective

**Major Technical Area**

30 Hours  
Approved CP or TC from NWACC up to 30 hrs  
**OR** any combination of PLE + NWACC prefixes that satisfies the following stipulation that all 30 of the hours fall within the CTE defined career clusters and lead to a \*technician's role or higher and/or identifiable O-Net code. Students should meet with workforce training advisor to verify major technical coursework.

Note: Business, Computer, and Health Professions classes cannot fulfill these requirements. Please look at other NWACC degrees in these fields

Dept.	Number	Course title:	Hours:
BIOL	1103	Introduction to Biotechnology	3
BIOL	2104	Biotechnology I	4
BIOL	2204	Biotechnology II	4
BIOL	2324	Genetics	4
BIOL	2534	Cell Biology	4
COMM	1303	Public Speaking	3
CHEM	1074 OR	Fundamentals of Chemistry	4
CHEM	1104	College Chemistry I	4
CHEM	2614	Organic Physiological Chemistry	4

**Technical Support Courses**

15 Hours  
Courses from other technical areas and/or PLE hrs that support the goals of the student, their professional development, and the major technical area. Students should meet with a workforce training advisor to determine these courses.

Choose 15 hours from the courses listed below

Dept.:	Number:	Course title:	Hours:
BIOL	1544	Principles of Biology	4
MBIO	2014	General Microbiology	4
MATH	1203	College Algebra	3
MATH	1213	Trigonometry	3
PHYS	2014	College Physics I	4
CHEM	1124	College Chemistry II	4
CMJS	2013	Intro to Criminal Justice	3
CMJS	2093	Forensic Anthropology	3
CMJS	2343	Crime Scene Investigation	3
AFLS	2921	Agricultural Undergraduate Research I	1
AFLS	2931	Agricultural Undergraduate Research II	1
ENSC	2921	Undergraduate Research I	1
ENSC	2931	Undergraduate Research II	1

>>>Check the college catalog for possible prerequisites before enrolling in classes; only 30 hours of PLE may be counted toward this degree.>>>

**POSSIBLE PLACEMENT REQUIREMENTS**

These courses are for developing college level skills.

NWACC strongly recommends that students enroll in English and math preparatory courses within the first two semesters.

- MATH 0012 Foundations of Quantitative Reasoning
- MATH 0013 Pre-algebra
- Math 0022 Foundations of Beginning Algebra
- MATH 0053 Beginning Algebra
- MATH 0103 Intermediate Algebra
- MATH 0112 Foundations of College Algebra
- MATH 0214 Foundations of Algebra-STEM
- ENGA 0033 College Reading\*\*
- ENGA 0063 Intermediate Writing
- ENGA 0093 Reading and Writing Studio
- ENGA 0091 Academic Literacy Lab\*\*
- ENGC 0033 College Reading & Vocabulary\*\*
- ENGC 0043 Communication & Culture
- ENGC 0131 Comp Review

These hours will not fulfill any degree requirements at NWACC. These courses will not transfer to a four year institution

**15 credit hours are required in residence at NWACC to graduate**

**\*Possible Technician job Examples:**

- Solar Energy Technician: <https://www.onetonline.org/link/summary/47-4099.02>
- Horticulture/Agriculture Technician: <https://www.onetonline.org/link/summary/19-4011.01>
- Manufacturing Production Technician: [https://www.onetonline.org/link/summary/17-3029.09\\*\\*](https://www.onetonline.org/link/summary/17-3029.09**)
- Industrial Engineering Technician: [https://www.onetonline.org/link/summary/17-3026.00\\*\\*](https://www.onetonline.org/link/summary/17-3026.00**)
- Robotics Technicians: [https://www.onetonline.org/link/summary/17-3024.01\\*\\*](https://www.onetonline.org/link/summary/17-3024.01**)
- Electro Mechanical Technicians: <https://www.onetonline.org/link/summary/17-3024.00> (UAF technician – Commercial Drone Software developer\*\*)
- Electronics Engineering Technicians: <https://www.onetonline.org/link/summary/17-3023.01>

\*\*Has DOL registered Apprenticeship License

**NOTE: Some Technical areas included in this degree are not federal aid eligible. Please consult an advisor or the Enrollment Support Center for more information on eligibility.**