

STUDENTS IN THIS PROGRAM WILL...

- ⚙️ Realize their strengths and passions by exploring engineering fundamentals, physics, and innovative design.
- ⚙️ Gain knowledge and skills through hands-on, project-based learning in energy and power, materials and structure, control systems and statistics and kinematics.
- ⚙️ Cultivate professional skills critical to success in college and career endeavors including critical thinking and problem solving, along with effective collaboration and communication.
- ⚙️ Use design thinking to develop innovative solutions to improve the lives of others through ASU EPICS projects.
- ⚙️ Work alongside a diverse range of industry professionals from companies and organizations such as APS, ASU Engineering Projects in Community Service (EPICS), City of Peoria and CORE Construction.
- ⚙️ Learn how to 3D model utilizing CAD software for experiential learning and prototyping.
- ⚙️ Mathematical modeling for engineering concepts with Excel and MATLAB.

HIGH SCHOOL COURSE SEQUENCE

FIRST YEAR:

Semester One

- ⚙️ MET Engineering I H - Design Thinking
- ⚙️ MET Engineering I Professional Internship H

Semester Two

- ⚙️ MET Engineering II H - Innovation & Design
- ⚙️ MET Engineering II Professional Internship

SECOND YEAR:

Semester Three

- ⚙️ MET Engineering III H - Capstone Project I
- ⚙️ MET Engineering III Professional Internship H

Semester Four

- ⚙️ MET Engineering IV H - Capstone Project II
- ⚙️ MET Engineering IV Professional Internship H

CERTIFICATIONS

- ⚙️ SolidWorks Certified Associate (CSWA)
- ⚙️ SolidWorks Certified Professional (CSWP)

PROGRAM PARTNERS

- ⚙️ ASU Ira A. Fulton Schools of Engineering
- ⚙️ ASU Engineering Projects in Community Service (EPICS)
- ⚙️ ASU Entrepreneurship + Innovation
- ⚙️ Project Lead the Way



APPLY NOW

Download the application at:
www.peoriaunified.org/MET

STEPS TO SUBMIT YOUR APPLICATION

1. Complete all form fields on the application
2. Meet with your counselor to obtain his or her approval
3. Submit completed application to your counselor





STUDENTS IN THIS PROGRAM WILL...

-  Learn to identify market opportunities and strategically execute innovative solutions.
-  Build a strong foundation in strategic planning and analysis, product development, collaboration, leadership, communication and team building.
-  Make connections through resources and mentorships to help turn ideas into reality.
-  Work alongside a diverse range of industry professionals.
-  Apply a creative approach to problem solving through human-centered design.
-  Learn to utilize industry standard graphic design tools for branding and sharing venture.



HIGH SCHOOL COURSE SEQUENCE

FIRST YEAR:



Semester One

-  MET Global Business I H
-  MET Global Business Professional Internship I H

Semester Two

-  MET Global Business II H
-  MET Global Business Professional Internship II H

PROGRAM PARTNERS

-  ASU Office of Entrepreneurship + Innovation
-  Small Business Administration



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STUDENTS IN THIS PROGRAM WILL...

- ▼ Realize their strengths and passions by exploring careers in medicine and biomedical research.
- ▼ Gain knowledge and skills through hands-on, project-based learning in a clinical setting using industry-standard diagnostic equipment and medical tools.
- ▼ Learn from and be mentored by physicians, surgeons, medical specialists, biomedical researchers, nurses, physician assistants, nurse practitioners and medical educators.
- ▼ Earn up to 16 college credits through Grand Canyon University and prepare for medical degree pathways.
- ▼ Cultivate professional skills critical to success in all college and medical career endeavors including critical thinking and problem solving, along with effective collaboration and communication.
- ▼ Practice suturing, dissecting, casting and apply different medical diagnoses.

HIGH SCHOOL COURSE SEQUENCE

FIRST YEAR:

Semester One

- ▼ MET Foundations of Medicine I H
- ▼ MET Foundations of Medicine I H/
MET Professional Internship H

Semester Two

- ▼ MET Foundations of Medicine II H
- ▼ MET Foundations of Medicine II/
MET Professional Internship H

SECOND YEAR:

Semester Three

- ▼ MET Applications of Medicine I H
- ▼ MET Applications of Medicine/
MET Professional Internship H

Semester Four

- ▼ MET Applications of Medicine II H
- ▼ MET Applications of Medicine II/
MET Professional Internship H

COLLEGE PROGRAM PARTNERS

- ▼ Grand Canyon University (STEM tuition waiver)
- ▼ Midwestern University
- ▼ West Coast Ultrasound Institute

CERTIFICATIONS

- ▼ BLS Healthcare Provider CPR AED and First Aid Certification
- ▼ Certified EKG Technician (CET)

COLLEGE DUAL ENROLLMENT COURSES

FIRST YEAR:

- ▼ BIO-201/201L: Human Anatomy and Physiology I/Lab (Biochemistry, Cells, Tissues, Integumentary, Skeletal, Muscular, and Nervous systems.) **4 Credits**

OPTIONAL SUMMER COURSES: (on the campus of GCU):

- ▼ BIO-181/181L: General Biology **4 Credits**

SECOND YEAR:

- ▼ BIO-202/202L: Human Anatomy and Physiology II/Lab (Endocrine, Cardiovascular, Lymphatic, Respiratory, Urinary, and Reproductive) **4 Credits**
- ▼ PSY-102: General Psychology **4 Credits**



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STUDENTS IN THIS PROGRAM WILL...

-  Realize their strengths and passions by exploring IT networking and cybersecurity fundamentals.
-  Gain knowledge and skills through hands-on, project-based learning in our Cisco Net Academy Lab.
-  Cultivate professional skills critical to success in all college and career endeavors including critical thinking and problem solving, along with effective collaboration and communication.
-  Install and troubleshoot various operating systems. (Linux, Windows, Cisco, etc.)
-  Gain industry experience working alongside IT professionals to complete authentic business projects.
-  Participate and compete in national cybersecurity competition.
-  Connect with business mentors from companies and organizations such as American Express, Cisco, APS and Estrella Mountain Community College.



HIGH SCHOOL COURSE SEQUENCE

FIRST YEAR:

Semester One



-  Cybersecurity H - Cisco
-  Cybersecurity H - IT Ethics

Semester Two



-  Cybersecurity H - MS Windows
-  Cybersecurity H - Linux

SECOND YEAR:




Semester Three

-  Cybersecurity H - Capstone I
-  Cybersecurity Internship H





Semester Four

-  Cybersecurity H - Capstone II
-  Cybersecurity Internship H

PROGRAM PARTNERS

-  Estrella Mountain Community College
-  American Express
-  APS

COLLEGE DUAL ENROLLMENT COURSES

-  **Introduction to Networks (CNT 140)**
Introduces the architecture, structure, functions, components and models of the Internet and other computer networks.
-  **Ethics in Information Technology (CIS 111)**
Examine ethical issues that arise as a result of increasing use of computers and the responsibilities of those who work with computers, either as computer science professionals or end users.
-  **Installing & Configuring Microsoft Windows (MST 150SV)**
In-depth exploration of how to effectively install and configure Windows 10. Includes features of Windows 10, visualization improvements, network connectivity, access to resources. Monitor and maintain Windows clients and backup and recovery.
-  **Linux Operating System (CIS 126DL)**
Introduction to the Linux Operating system. Develop knowledge and skills required to install, configure and troubleshoot a Linux-based workstation including basic network functions.








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STUDENTS IN THIS PROGRAM WILL...

-  Experience the intersection of biology and technology through profession-based projects using industry standard laboratory and field equipment.
-  Realize their strengths and passions by exploring practical application of biotechnology research.
-  Gain industry knowledge and become prepared for a career path in biotechnology and innovations.
-  Focus on skills essential to conducting biotechnology research such as safety, lab protocol, proper documentation and ethics.
-  Explore DNA manipulation, protein analysis, microbiological and cell culturing techniques in various fields such as healthcare, forensics and the environment.


HIGH SCHOOL COURSE SEQUENCE

FIRST YEAR:




Semester One

-  MET Bioscience & Innovations Honors & Internship Honors

Semester Two

-  MET Bioscience & Research Honors & Internship Honors

PROGRAM PARTNERS

-  TGen
-  ASU New College of Interdisciplinary Arts and Sciences
-  Humabiologics

PROGRAM OF STUDY

MET Bioscience & Innovations Honors & Internship Honors 2 Credits

Discover how biotechnology has brought about a revolution in the biological sciences rapidly advancing fields in healthcare, forensics, genetic engineering, environment, food science, biofuel and energy. You will gain an understanding of current and future uses of biotechnology as well as obtain hands-on workplace laboratory skills that are in high demand.

MET Bioscience & Research Honors & Internship Honors 2 Credits

If you have a fascination with biological discovery and are interested in conducting authentic research, bioscience research will allow you to hone your technical skills while pursuing biological discovery. You will be introduced to the content knowledge and professional attributes associated with conducting authentic research as you collaborate with industry experts.



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