

# Medical Equipment Engineering



## TWO-YEAR PROGRAM - 900-hour program

- Apply the engineering design process to troubleshoot, repair, or improve medical equipment.
- Develop diagnostic and problem-solving skills to calibrate and maintain accurate equipment.
- Visualize and construct 3D models and prototypes using Computer-Aided Design (CAD).

## PROGRAM REQUIREMENTS\*

- Current Sophomore, Junior, and Senior students may apply
- One credit of Algebra I with a C or better
- One credit of English with a C or better
- One credit of Biology I with a C or better, transcript due to West-MEC by June 15th
- Copy of unofficial transcript including second-semester schedule
- Proof of residency in West-MEC district boundaries is due at the time of enrollment
- Copy of birth certificate and immunizations/State Exemption Form due at the time of enrollment
- Students who do not meet program requirements may apply under a “Student Success Action Plan” through their high school counselor.
- Transportation is not provided by West-MEC. Families are responsible for providing transportation to and from West-MEC.

\*Program requirements are subject to change per industry age restrictions, credentials requirements, and administrative discretion.

**Meeting program requirements does not guarantee enrollment.**

## IMMUNIZATION REQUIREMENTS

- Proof of current Immunizations OR an AZ State Exemption Form are required
  - If an AZ State Exemption Form is submitted, a West-MEC Acknowledgement Form must be signed.
- Immunizations may be required for externships in health care settings.
  - Some credentials in this program may require externship completion.
- Immunization may be required for employment in health care settings.

## COST REQUIREMENTS

Upon enrollment into the program:

- \$150.00 non-refundable registration fee includes enrollment processing, supplies, CTSO Membership, and uniform shirts. Other uniforms/supply requirements are the responsibility of the student. Registration fees are non-refundable.
  - CTSO Leadership development training is embedded through membership and participation in the Career and Technical Student Organization, SkillsUSA.
- It is recommended that students have access to a personal computer and reliable internet outside of class to complete assignments and projects.

Optional Costs:

- It is recommended students have access to a personal computer and reliable internet outside of class to complete assignments and projects.

Tuition:

- Empowerment Scholarship Account (ESA) recipients are responsible for tuition West-MEC is an approved vendor.
- Student Tax Credit (STO)/Private School Scholarship recipients are responsible for tuition.
- Are a junior applicant who will become a senior in a two-year program
- Obtains a General Educational Development (GED) certificate while in a West-MEC Program
- Are a Foreign Exchange student
- Students who reside outside of West-MEC boundaries are responsible for tuition.
- Will graduate from high school as a senior before completing their West-MEC program
- Details regarding tuition costs are available at [Tuition Fees](#).

Program information may change as West-MEC strives to provide the best opportunities for students. Refer to [www.west-mec.edu](http://www.west-mec.edu) for most current information. Program is taught by industry certified instructors. West-MEC does not discriminate on the basis of race, color, national origin, gender, age, or disability in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of their operations.



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## INDUSTRY CREDENTIAL

If eligible, students will have the opportunity to test for the following credentials.

FEES PREPAID BY WEST-MEC. It is the responsibility of the student to maintain copies of all earned credentials.

- This industry credential is often required for employment. This industry credential is required for employment in the field a majority of the time
  - CABT - Certified Associate in Biomedical Technology
- This industry credential is often preferred for employment in the field. Candidates with this industry credential are likely to be given priority in hiring.
  - Autodesk - Inventor (Imperial or Metric)
  - Occupational Safety & Health Administration-OSHA 10 Healthcare
  - American Heart Association BLS CPR/AED

Proof of Citizenship or Legal Permanent Residency may be required for credential testing. Students with a documented disability may request credential testing accommodations through the individual testing entity.

## CAREER PATHWAYS

- Entry-level Biomed Equipment Technician, Entry-level Medical Equipment Repair Technician, Clinical Engineering Assistant\*, Electronics Technician in Healthcare\*, Durable Medical Equipment Specialist\*, Cleanroom Equipment Engineering Technician, CTE Instructor\*
- Students work with the same tools used by professionals in hospitals, clinics, and medical device companies.
- Entry-level salary range: \$18 – \$26 per hour\*\*

\*with additional education in this pathway | \*\*Bureau of Labor Statistics, Occupational Employment & Wages

## LOCATION & HOURS

### West-MEC Southwest Campus:

500N. Verrado Way  
Buckeye, AZ 85326  
623.872.6260

### Monday – Friday

1st Year: 7:00 AM - 9:30 AM  
2nd Year: 1:00 PM - 3:30 PM

**NOTE: West-MEC & high school calendars may not align & transportation provided by the student/parent**

## ENROLLMENT INFORMATION

- Acceptance into West-MEC programs is competitive.
- Students may only be enrolled in **one** West-MEC Central Program at a time.
- The order for filling seats by grade level is as follows:
  - Current Sophomores
  - Current Juniors\*
  - Current Seniors\*
- Applications are ranked, in part, by attendance, GPA, discipline, and career choice (ECAP).
- Program hours are not excused for participation in extracurricular activities, athletics, vacation, or employment.
- West-MEC priority application submission date is in the beginning of the second semester. Contact your school counselor for your school's Priority Application Deadline.
- West-MEC provides accommodations and modifications identified in the IEP/504 for high school students. Students who graduate from high school or have a GED will not be eligible for IEP services. Graduated students will need to self-advocate for reasonable accommodations that are aligned with industry certifications.

## STUDENT SUCCESS INDICATORS

- Strong interest in chosen career pathway.
- History of good attendance and discipline, and on track for graduation.
- Ability to work well with others and cooperate with the instructor.
- Ability to work accurately/follow procedures to an industry-standard.
- Strong technical reading and study skills; the textbook for this course is written at the college reading level.
- Uniforms are reviewed to meet professional industry standards. Dress code requirements are addressed before the start of classes.
- Strong understanding of the scientific process
- Strong hand-eye coordination with fine motor skills and stamina
- Comfortable performing animal dissections and handling bodily fluids
- Manual dexterity and physical ability to use tools, equipment, and machinery

## GRADING SCALE

Grade	A	B	C	D	F
Percent	90%-100%	80%-89%	70%-79%	60%-69%	59% or below

## CREDITS ISSUED BY WEST-MEC

- High School - 6 elective credits (3 elective credits per year)
- High school credits are awarded each semester
- This program satisfies AZ State University's admissions requirements. (AZ Board of Regents CTE/Fine Arts credit)

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