



Mechanical-Electrical Technology A.S. Degree

This program map represents one possible path for completing this program. **Please see a counselor** to create an educational plan that is customized to meet your needs. This path is not a guarantee of course availability or financial aid applicability.

Catalog: 2024-25

Total Units: 71-72

First Year

Other Term

1 Units

| CAT. | COURSE | TITLE | UNIT | AA/AS GE |
|--------|---------|--|------|-------------|
| PreReq | MET 250 | Introduction to Mechanical-Electrical Technology | 1 | |

*MET 250 is offered prior to the start of the term. Refer to the class schedule and speak with a counselor as you begin your program.

Semester 1

15 Units

| CAT. | COURSE | TITLE | UNIT | AA/AS GE |
|------|------------------------|---|------|-------------|
| Maj | MET 256 ⁺ | Fundamentals of Instruments and Electricity | 1.5 | |
| Maj | MET 257 ⁺ | Fundamentals of Workplace Success | 1.5 | |
| Maj | MET 350 | Cal/OSHA 10 General Safety | 1 | |
| Maj | MET 351 ⁺ | Basic Mechanical Systems | 5 | |
| Maj | MET 352 ⁺ | Mechanical Systems Calculations | 2 | |
| Maj | MET 357 ⁺ | Drawing Mechanical Systems | 1 | |
| GE | INDIS 313 [*] | Freshman Seminar | 3 | IIIB |

+ Prerequisite for MET 256, 257, 351, 352, 357: MET 250 with a grade of "C" or better

*INDIS 313 - Freshman Seminar is specifically designed for First Time in College students. If you're not a First Time in College student, please select a GE course from SCC General Education Area IIb, such as HCD 310-College Success.

Semester 2

15-16 Units

| CAT. | COURSE | TITLE | UNIT | AA/AS GE |
|------|----------------------|--|------|-------------|
| Maj | MET 360 ⁺ | Mechanical Systems Maintenance | 1.5 | |
| Maj | MET 361 ⁺ | Refrigeration Systems | 3 | |
| Maj | MET 362 ⁺ | Refrigeration Systems Calculations | 3 | |
| Maj | MET 363 ⁺ | Refrigerant Transition and Recovery Processes and Procedures | 1.5 | |
| Maj | MET 364 ⁺ | Electrical Controls | 3 | |

Legend

- (H) - Honors
- Elec - Elective
- GE - General Education
- Maj - Required Core
- ME - Major Elective

Disclaimer

Every effort has been made to ensure that what is listed in the SCC Program Paths are accurate. The courses, the course sequencing, and the programs are subject to change without notice by the administration of the Los Rios Community College District and Sacramento City College at the discretion of the district and Sacramento City College. Further, Sacramento City College reserves the right to amend any course or program.

PLEASE SEE AN SCC COUNSELOR.

AA/AS Requirements

Associate Degrees require the following:

1. Completion of a minimum of 60 degree-applicable units with an overall grade point average (GPA) of 2.0 ("C" average). A minimum of 12 units must be completed at Sacramento City College.
2. Completion of each required course with a grade of "C" or better for a major offered at Sacramento City College.
3. Completion of Sacramento City College's general education requirements – Area I; Area II(a) and II(b); Area III(a) and III(b), or Area III(c); Area IV; Area V; and Area VI – with an overall 2.0 GPA.
4. Completion of all three competency requirements (reading, writing, and mathematics).

Students with Advanced Placement (AP) and International Baccalaureate Credit (IB) test scores should notify their Counselor to learn more about how test scores may be used for credit.

| CAT. | COURSE | TITLE | UNIT | AA/AS GE |
|------|--|---------------------|------|-------------|
| GE | ENGWR 300* / 488 ^H / ESLW 340 | College Composition | 3-4 | IIA |

+ **Prerequisite for MET 360:** MET 256, 257, 351, and 357 with grades of "C" or better

+ **Prerequisite for MET 361 & 363:** MET 351 with a grade of "C" or better

+ **Prerequisite for MET 362:** MET 351 and 352 with grades of "C" or better

+ **Prerequisite for MET 364:** MET 256, 351, 352, and 357 with grades of "C" or better

*If you don't place directly in ENGWR 300 (check your e-Services account), you will need to take ENGWR 80/ENGWR 300 combo course.

Exception: Students who possess a bachelor's (BA/BS) or higher degree from a college or university accredited through a regional accrediting agency recognized by the Council for Higher Education Accreditation (CHEA) are deemed to have satisfied both the general education and graduation competency requirements for an AA/AS degree. Degrees from accredited institutions outside of the US will be evaluated on a case-by-case basis.

Placement Information

Support courses required for English and Math per placement. **Check your e-Services account under "Academic Records" to determine your placements.**

Important Links

[SCC General Counseling](#)
[Mechanical-Electrical Technology](#)
[Business & Industry Meta Majors](#)

Second Year

Semester 3

15 Units

| CAT. | COURSE | TITLE | UNIT | AA/AS GE |
|------|-----------------------|--|------|-------------|
| Maj | MET 371 ⁺ | Gas-Fired Heating Equipment | 3 | |
| Maj | MET 372 ⁺ | Power Machinery, Heating and Air Conditioning Calculations | 3 | |
| Maj | MET 373 ⁺ | Piping and Electrical Drafting and Blueprint Reading | 3 | |
| Maj | MET 374 ⁺ | Automatic Control Systems I | 3 | |
| GE | MATH 300 [*] | Introduction to Mathematical Ideas | 3 | IIB |

+ **Prerequisite for MET 371:** MET 351, 360, and 364 with grades of "C" or better

+ **Prerequisite for MET 372:** MET 361 and 362 with grades of "C" or better

+ **Prerequisite for MET 373:** MET 360, 361, and 364 with grades of "C" or better

+ **Prerequisite for MET 374:** MET 361 and 364 with grades of "C" or better

*If you don't place directly in MATH 300 (check your e-Services account), you will need to take MATHS 95/MATH 300 combo course.

Semester 4

15 Units

| CAT. | COURSE | TITLE | UNIT | AA/AS GE |
|------|----------------------|---|------|-------------|
| Maj | MET 381 ⁺ | Air Conditioning | 3 | |
| Maj | MET 383 ⁺ | Instrumentation | 3 | |
| Maj | MET 384 ⁺ | Automatic Control Systems II | 3 | |
| Maj | MET 388 ⁺ | Heat Pump Operation and Load Calculations | 3 | |
| GE | | Social & Behavioral Sciences | 3 | VB |

- + **Prerequisite for MET 381:** MET 371 and 372 with grades of "C" or better
- + **Prerequisite for MET 383:** MET 371, 372, 373, and 374 with grades of "C" or better
- + **Prerequisite for MET 384:** MET 371 and 374 with grades of "C" or better
- + **Prerequisite for MET 388:** MET 371, 372, and 373 with grades of "C" or better

Semester 5

10 Units

| CAT. | COURSE | TITLE | UNIT | AA/AS GE |
|------|---|--|------|-------------|
| GE | | Natural Sciences | 3 | IV |
| GE | | Physical Education | 1 | IIIA |
| GE | | Humanities | 3 | I |
| GE | HIST 310 / 311 / 320 / 321 / 327 / 483 ^H / 484 ^H / 485 ^H / 486 ^H / 487 ^H | American Institutions/Ethnic - Multicultural Studies | 3 | VA/VI |