

MATERIALS SCIENCE AND ENGINEERING TRANSFER GUIDE

Earn your associate degree from Sinclair College and then transfer seamlessly to Wright State University to earn your bachelor's degree.

Below are the official Sinclair and Wright State courses. Your plan may be different.

Meet with your academic and/or faculty advisor to discuss and create your personal degree plan each semester.



**Associate of Science in Engineering
and Engineering Technology**

→ TO →



**Bachelor of Science in Materials
Science and Engineering**

FIRST YEAR

Sinclair Fall Semester

- CHE 1211: General Chemistry I
- CHE 1251: Lab for General Chemistry I
- EGR 1101: Introduction to Math for Engineering Applications
- ENG 1101: English Composition I
- MET 1301: Solidworks
- COM 2211: Effective Public Speaking

Sinclair Spring Semester

- MAT 2270: Calculus and Analytical Geometry I
- PHY 2201: General Physics I
- PHY 2207: Lab for General Physics I
- PHY 2210: Problem Solving Physics with MATLAB
- Ohio Transfer Module Course

Wright State Fall Semester Equivalent

- CHM 1210: General Chemistry I
- CHM 1210L: Lab for General Chemistry I
- EGR 1010: Introduction to Math for Engineering Applications
- ENG 1100: Academic Writing and Reading
- ME 1040: Engineering Design and Solid Modeling
- COM 1010: Essentials of Public Address

Wright State Spring Semester Equivalent

- MTH 2300: Calculus I
- PHY 2400: General Physics I
- PHY 2400L: Lab for General Physics I
- ME 1020: Engineering Programming with MATLAB
- Wright State University Core Requirement

SECOND YEAR

Sinclair Fall Semester

- PHY 2202/2208: General Physics II
- PHY 2208: Lab for General Physics II
- MAT 2280: Calculus and Analytical Geometry II
- MEE 2101: Statics for Engineers
- Ohio Transfer Module Course

Sinclair Spring Semester

- MAT 2330: Differential Equations and Linear Algebra
- MEE 2301: Strength of Materials for Engineers
- SOCHE ME 2700
- Ohio Transfer Module Course

Wright State Fall Semester Equivalent

- PHY 2410: General Physics II
- PHY 2410L: Lab for General Physics II
- MTH 2310: Calculus II
- ME 2120: Statics
- Wright State University Core Requirement

Wright State Spring Semester Equivalent

- MTH 2350: Differential Equations with Matrix Algebra
- ME 3120: Mechanics of Materials
- ME 2700: Structure and Properties of Materials
- Wright State University Core Requirement

Total Sinclair Credit Hours: 64

See reverse for third and fourth years and the Wright State admissions process.

THIRD YEAR AT WRIGHT STATE

Fall Semester

- MTH 2320: Calculus III
- ME 2600: Metallography
- EE 2010: Circuit Analysis I
- EE 2010L: Lab for Circuit Analysis I
- EGR 3350: Technical Communication for Engineers and Scientists
- ME 3750: Thermodynamics of Materials

Spring Semester

- ME 3600: Experimental Measurements and Instrumentation
- ME 3760: Diffusion and Kinetics
- ME 4750: Materials Characterization
- Track Course
- Technical Elective

FOURTH YEAR AT WRIGHT STATE

Fall Semester

- ME 4910: Capstone Design I
- ME 4730: Engineering Ceramics
- ME 4620: Mechanical and Materials Testing Lab
- ME 4770: Mechanical Behavior of Metals
- ME 4720: Engineering Polymers
- Track Course

Spring Semester

- ME 4920: Capstone Design II
- ME 4700: Structure and Properties of Materials II
- ME 4740: Materials Selection and Failure Analysis
- Track Course

Total Wright State Credit Hours: **56**

Minimum credit hours required to graduate from Wright State: **120**

Transfer to Wright State

- Apply to Wright State at wright.edu/apply.
- To learn more about the transfer process, visit wright.edu/sinclair/me, email transfer@wright.edu or call 937-775-4830.
- Visit wright.edu/wrightpath to explore the Wright Path Program, which offers up to \$3,500 in scholarships.

Additional Steps to Enter the Materials Science and Engineering Program

- When you apply through the Admissions Portal, list materials science and engineering as your intended major.

Visit wright.edu/me for more information on the program.

For assistance with academic advising, selecting courses, and creating your personal degree plan, contact:

Sinclair College Academic Advising Center
Room 10301, Building 10
937-512-3700
academicadvising@sinclair.edu

Wright State College of Engineering and Computer Science Advising
280 Joshi Research Center
937-775-5272
cecs-advisors@wright.edu