

Railroad Systems Management Technology RSM3

Type: Associate of Applied Science, AAS

The Railroad Systems Management Technology AAS prepares graduates for careers as supervisors in the rail industry.

*** Students must complete one of the Specializations below:**

- Mechanical Specialization 8M33
- Electrical Specialization 8E43

Program: [Railroad Industry](#)

Location: Waycross

Entrance Requirements

- Submit a completed application;
- High School diploma or equivalent required for Graduation: Yes
- Age Requirement:
- Submit official high school/high school equivalent transcripts, if applicable;
- Submit official college transcripts, if applicable;
- Satisfy [Placement Testing](#) requirements.

Area I - Language Arts/Communications

| Item # | Title | Credits |
|--|--------------------------|----------|
| ENGL 1101 | Composition and Rhetoric | 3 |
| Minimum Area I - Language Arts/Communications Credit Hours: | | 3 |

Area II - Social/Behavioral Sciences

| Item # | Title | Credits |
|---|---------------------------|----------|
| ECON 1101 | Principles of Economics | 3 |
| ECON 2105 | Macroeconomics | 3 |
| ECON 2106 | Microeconomics | 3 |
| HIST 1111 | World History I | 3 |
| HIST 1112 | World History II | 3 |
| HIST 2111 | U.S. History I | 3 |
| HIST 2112 | U.S. History II | 3 |
| POLS 1101 | American Government | 3 |
| SOCI 1101 | Introduction to Sociology | 3 |
| PSYC 1101 | Introductory Psychology | 3 |
| Minimum Area II - Social/Behavioral Sciences Credit Hours: | | 3 |

Area III - Natural Sciences/Mathematics

| Item # | Title | Credits |
|-----------|---------------------------------|---------|
| MATH 1100 | Quantitative Skills & Reasoning | 3 |
| MATH 1101 | Mathematical Modeling | 3 |
| MATH 1103 | Quantitative Skills & Reasoning | 3 |
| MATH 1111 | College Algebra | 3 |
| MATH 1112 | College Trigonometry | 3 |
| MATH 1113 | Precalculus | 3 |
| MATH 1127 | Introduction to Statistics | 3 |
| MATH 1131 | Calculus I | 4 |
| MATH 1132 | Calculus II | 4 |
| MATH 1133 | Calculus III | 4 |

* All corresponding labs are **corequisite** to meet degree requirements

| | | |
|------------|-----------------------------------|---|
| BIOL 1111 | Biology I | 3 |
| BIOL 1111L | Biology Lab I | 1 |
| BIOL 1112 | Biology II | 3 |
| BIOL 1112L | Biology Lab II | 1 |
| BIOL 2107 | Biological Principles I | 3 |
| BIOL 2107L | Biological Principles I Lab | 1 |
| CHEM 1151 | Survey of Inorganic Chemistry Lab | 3 |
| CHEM 1151L | Survey of Inorganic Chemistry Lab | 1 |
| CHEM 1152 | Survey of Organic Biochemistry | 3 |
| CHEM 1211 | Chemistry I | 3 |
| CHEM 1212 | Chemistry II | 3 |
| PHYS 1110 | Conceptual Physics | 3 |
| PHYS 1111 | Introductory Physics I | 3 |
| PHYS 1111L | Introductory Physics I Lab | 1 |
| PHYS 1112 | Introductory Physics II | 3 |
| PHYS 1112L | Introductory Physics Lab | 1 |

Minimum Area III - Natural Sciences/Mathematics Credit Hours: 3

Area IV - Humanities/Fine Arts

| Item # | Title | Credits |
|-----------|----------------------------|---------|
| ARTS 1101 | Art Appreciation | 3 |
| ENGL 2110 | World Literature | 3 |
| ENGL 2130 | American Literature | 3 |
| HUMN 1101 | Introduction to Humanities | 3 |
| MUSC 1101 | Music Appreciation | 3 |
| THEA 1101 | Theater Appreciation | 3 |
| RELG 1101 | World Religion | 3 |
| SPAN 1101 | Introduction to Spanish | 3 |

Minimum Area IV - Humanities/Fine Arts Credit Hours: 3

Specific General Education Core Elective

* Choose an additional course from the complete Area I, II, III, or IV listings:

- [General Education Courses](#)

Minimum Specific General Education Core Elective Credit Hours: 3

Occupational Courses

| Item # | Title | Credits |
|---|---|-----------|
| COMP 1000 | Introduction to Computer Literacy | 3 |
| ACCT 1100 | Financial Accounting I | 4 |
| MGMT 1100 | Principles of Management | 3 |
| MGMT 1110 | Employment Rules & Regulations | 3 |
| MGMT 2120 | Labor Management Skills | 3 |
| MGMT 2135 | Management Communication Techniques | 3 |
| SCMA 1003 | Introduction to Transportation & Logistics Management | 3 |
| SCMA 2103 | Supply Chain Management Concepts | 3 |
| IDFC 1007 | Industrial Safety Procedures | 2 |
| RRTC 1010 | Introduction to the Railroad Industry | 4 |
| Minimum Occupational Courses Credit Hours: | | 31 |

Mechanical Specialization 8M33

| Item # | Title | Credits |
|---|------------------------------------|-----------|
| RRTC 1040 | Locomotive Mechanical Systems | 3 |
| ELCR 2140 | Mechanical Devices | 2 |
| ELCR 2150 | Fluid Power | 2 |
| | Advisor Approved Electives (7 hrs) | 7 |
| Minimum Mechanical Specialization 8M33 Credit Hours: | | 14 |

Electrical Specialization 8E43

| Item # | Title | Credits |
|---|------------------------------------|-----------|
| RRTC 1020 | Locomotive Electrical Systems | 4 |
| ELCR 2120 | Motor Controls | 3 |
| IDSY 1100 | Basic Circuit Analysis | 5 |
| | Advisor Approved Electives (2 hrs) | 2 |
| Minimum Electrical Specialization 8E43 Credit Hours: | | 14 |
| Minimum Credit Hours for Graduation: | | 60 |