

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

Area I - Language Arts/Communications

Item #	Title	Credits
ENGL 1101	Composition and Rhetoric	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

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

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

Specific General Education Core Elective

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

- [General Education Courses](#)

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

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

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 Credit Hours for Graduation	60