Railroad Operations - General Option, A.A.S.

JCCC's associate's degree program in railroad operations can prepare you for an exciting and well-paying career. The more than 500 companies that make up the U.S. railroad industry provide the country's freight and passenger transportation service on a network of some 300,000 route-miles of track. Railroads employ a substantial workforce to service, maintain and manage this extensive transportation network.

In general, this option is designed to provide the student with general knowledge and skills for entry-level employment in the railroad industry. The student is introduced to the history of railroading and the various railroad crafts. Railroad operations, safety, environment and quality also are covered. The student will choose from a list of business and technical electives in order to provide a basis for possible employment and further post-employment training.

For information visit the National Academy of Railroad Sciences (http://www.railroadtraining.com). Hover your cursor over the "New Careers" tab and choose from the list.

(Major Code 2800; State CIP Code 49.0208)

First Semester

Total Hours		15
RRT 120	History of Railroading	3
PHIL 124	Logic and Critical Thinking	3
MATH 130	Technical Mathematics I*	3
ENGL 121	Composition I*	3
CPCA 110	Spreadsheets I: MS Excel*	1
CPCA 108	Word Processing I: MS Word*	1
CPCA 105	Introduction to Personal Computers: Windows	1

Second Semester

ENGL 123	Technical Writing I*	3
MATH 131	Technical Mathematics II*	3
PHYS 133	Applied Physics*	5
RRT 121	Railroad Technical Careers	3
Health and/or Physical Education Elective ^		1
Total Hours		15

Health and/or Physical Education Elective (http://catalog.jccc.edu/fall/degreecertificates/electives/health-and-or-physical-ed-aas)

Third Semester

BUS 121	Introduction to Business	3
ECON 132	Survey of Economics	3
or ECON 230	Economics I	
PHIL 138	Business Ethics	1
RRT 150	Railroad Operations	3
RRT 165	Railroad Safety, Quality and Environment	3
SPD 125	Personal Communication	3
Total Hours		16

Fourth Semester

Total Hours	18
Technical/Related Electives (see below)	12
Business/Related Electives (see below)	6

Business/Related Electives

ACCT 121	Accounting I	3
BUS 123	Personal Finance	3

BUS 140	Principles of Supervision	3
BUS 141	Principles of Management	3
BUS 225	Human Relations	3
BUS 243	Human Resource Management	3
BUS 261	Business Law I	3
MKT 230	Marketing	3
BOT 101	Computerized Keyboarding	1
Technical/Related Elec	tives	
AUTO 125	Introduction to Automotive Shop Practices	3
AUTO 165	Automotive Engine Repair*	4
CET 105	Construction Methods	3
CET 129	Construction Management	3
CPCA 138	Windows for Microcomputers*	1
DRAF 123	Interpreting Machine Drawings*	2
DRAF 129	Interpreting Architectural Drawings	2
ELEC 120	Introduction to Electronics	3
ENGR 180	Engineering Land Surveying I*	3
HVAC 123	Electromechanical Systems	4
INDT 125	Industrial Safety/OSHA 30	3
MFAB 152	Manufacturing Materials and Processes	3
MFAB 133	Gas Metal Arc Welding (GMAW) I*	3
MFAB 240	Metallurgy	2

Total Program Hours: 64