Biomedical Engineering





Certificates of Achievement

The Certificates of Achievement give students the knowledge and skills needed for employment in their respective fields. They will provide students with a concentration of courses that can be taken in conjunction with those required for the A.S. Engineering Science degree program. If the student decides to continue with the remaining course requirements leading to an associate degree in Engineering Science, the certificate will allow them to take the additional courses needed for transfer and can be used as Program electives.

Program Contact

Gayle Hughes, Assistant Professor, Engineering ghughes@rcsj.edu

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Engineering Science, COAs

[COA-CACS; CIP Code 15.1001] Core Courses Cre BIO 101 General Biology I CHM 112 General Chemistry II MAT 202 Linear Algebra PHY 202 Physics II SPE 101 Oral Communication	edits 3 3 3 3 3
Civil Engineering [COA-CACE; CIP Code 14.0101] Core Courses Cre SPE 101 Oral Communication MAT 202 Linear Algebra ENR 207 Engineering Materials ENR 211 Engineering Statics ENR 212 Mechanics of Materials ENR 213 Dynamics GEO 115 Geographical Information Systems CET 108 Introduction to Surveying DFT 103 CADD I (AutoCAD)	edits 3 3 3 3 3 3 3
TOTAL CREDITS	: 27
Chemical Engineering [COA-CACH; CIP Code 14.0101] Core Courses Cre SPE 101 Oral Communication MAT 202 Linear Algebra CHM 201 Organic Chemistry I CHM 202 Organic Chemistry II	edits 3 3 4 4
Electrical Engineering [COA-; CIP Code 15.] Core Courses Cre □ SPE 101 Oral Communication □ MAT 202 Linear Algebra □ CSC 220 Data Structures and Algorithms □ ENR 108 Digital Electronics for Engineering □ ENR 218 Principles of Electrical Circuit Analysis TOTAL CREDITS	edits 3 4 3 4 :: 17
Mechanical Engineering [COA-CAMC; CIP Code 14.0101] Core Courses Cre SPE 101 Oral Communication MAT 202 Linear Algebra ENR 207 Engineering Materials ENR 211 Engineering Statics ENR 212 Mechanics of Materials ENR 213 Dynamics TOTAL CREDITS	edits 3 3 3 3 3 3