



### BC3 to SRU – Transfer Credit Guide

#### ENGINEERING – Civil, Industrial and Systems, Mechanical, and Petroleum and Natural Gas

This guide has been created to help BC3 students choose courses that will eventually transfer to the SRU Petroleum and Natural Gas Engineering program. The guide corresponds with the Rock Studies component (general education) of the SRU curricula. BC3 courses that will transfer to Rock Studies are listed under each category. Transfer students should be aware that because of the unique nature of the engineering-related courses offered only at SRU, it may take longer than the traditional four years to complete the degree. PNGE students may alternately follow the BC3 associate degree in engineering.

ROCK STUDIES REQUIREMENTS (SRU General Education) (42-43 Credits)			
✓	Course	Title	Credits
<b>The Rock (12-16 Credits)</b>			
	ENGL 102 OR ENGL 104	Research Writing OR Literary Research Writing	3
	Any ENGL 201-230	Literature	3
	COMM 201	Speech	3
	MATH 221	Calculus and Analytic Geometry I	4
	_____ 139	University Seminar (Required at SRU if student transfers less than 24 credits)	3
<b>Integrated Inquiry (15-17 Credits)</b>			
<b>Creative and Aesthetic Inquiry (3 Credits)</b>			
	_____	Any Art, Music or Theater course from <b>BC3's Group I: Humanities</b>	3
<b>Humanities Inquiry (3 Credits)</b>			
	_____	Any Philosophy or Foreign Language course from <b>BC3's Group I: Humanities</b> OR Any course from <b>Group II: Social Sciences</b>	3
<b>Social Science Inquiry (3 Credits)</b>			
	_____	Any course from <b>BC3's Group II: Social Sciences</b>	3
<b>Natural Sciences Inquiry (3-4 Credits)</b>			
	CHEM 101	Chemistry I/Lab	4
<b>Physical Science Inquiry (3-4 Credits)</b>			
	PHYS 221	Engineering Physics I	4
<b>Thematic Thread – Transfer Credits (7 Credits)</b>			
	DRFT 115	Engineering Graphics	3
	PHYS 241	Statics	4
<b>Computer Competency</b>			
	_____	All students will be required to show “computer proficiency” by either transferring or completing a computer course, or by passing an SRU proficiency exam. BC3 students may choose one of the following courses: <ul style="list-style-type: none"> <li>COMP 121 – Introduction to Computer Applications</li> <li>COMP 210 – Introduction to Microcomputing</li> </ul> OR	0-3
<b>Major Requirements</b>			
	CHEM 102	Chemistry II (PNGE and Mechanical)	4
	COMP 230	Programming in C++ for Engineers and Scientists (all)	3
	MATH 222	Calculus and Analytic Geometry II (ISE, Mechanical, and PNGE)	3
	MATH 223	Calculus and Analytic Geometry III (ISE, Mechanical, and PNGE)	3
	MATH 224	Differential Equations (Civil, Mechanical, and PNGE)	3
	MATH 230	Linear Algebra (all)	3
	PENG 101	Intro to Petroleum and Natural Gas (PNGE only)	3
	PHSC 120	Principles of Geology (PNGE only)	4
	PHYS 222	Engineering Physics II (ISE, Mechanical, and PNGE)	3
	PHYS 241	Statics (all)	3
	PHYS 242	Dynamics (Mechanical only)	3

Students are responsible for the curriculum requirements at the time of enrollment at SRU. Because the curriculum may change from the point of beginning community college classes to enrolling at SRU, it is recommended that students occasionally consult with an SRU transfer counselor.