

Corozal Junior College

2020 Science Program – *Chemistry, Mathematics & Physics* – Total 112 Credit Hours

CSEC level Physics and Chemistry (or Introductory Chemistry course [JC level]) are required for this program.

Semester 1.1

CODE	COURSE DESCRIPTION	PREREQUISITE	CREDIT HOURS
CH 113	Fundamentals in Chemistry	CSEC CHEM, Co-req CH114	4
CH 114	Fundamentals in Chemistry Lab	Co-Req CH113	1
EN 107	College English I	EN101 if necessary	3
MT 105	College Algebra	MT103NC if necessary	4
MT 107	Plane Geometry & Trigonometry	MT103NC if necessary	4
PH 175	Mechanics I	CSEC PHYSICS, Co-req MT105, MT107, PH176	4
PH 176	Mechanics I Lab	Co-req PH175	1
PH 177	Thermal & Mechanical Properties of Matter	CSEC PHYSICS	3
RMT 101	Research Methods	None	3
TOTAL CREDIT HOURS			27

Semester 1.2

CODE	COURSE DESCRIPTION	PREREQUISITE	CREDIT HOURS
CH 213	Kinetics & Equilibria	CH113, Co-req CH214	4
CH 214	Kinetics & Equilibria Lab	Co-req CH213	1
CH 215	Inorganic Chemistry	CH113, Co-req CH216	3
CH 216	Inorganic Chemistry Lab	Co-req CH215	1
CS 105	Programming Concepts (lab)	None	3
EN 108	College English II	EN 107	3
MT 106	Calculus I	MT105, MT107	4
MT225	Statistical Analysis I	MT103NC <i>if necessary</i>	4
PH 178	Oscillations & Waves	Co-req PH179	3
PH 179	Oscillations & Waves Lab	Co-req PH178	1
TOTAL CREDIT HOURS			27

Semester 1.3

HIS 110	Introduction to Belizean History	None	3
SOCI1014	Introduction to Sociology	None	3
TOTAL CREDIT HOURS			6

Semester 2.1

CODE	COURSE DESCRIPTION	PREREQUISITE	CREDIT HOURS
CH 115	Organic Chemistry	CH 113, Co-req CH116, CH117	4
CH 116	Organic Chemistry Lab	Co-req CH 115, CH117	1
CH 117	Analytical Methods and Separation Techniques	CH113, Co-req CH115, CH116	3
EN 209	Communication Studies I	EN108	4
MT 215	Calculus II	MT106	4
MT 217	Counting, Matrices & Complex Numbers	MT106	4
MT 226	Statistical Analysis II	MT225	4
PH 280	Electromagnetism	PH 175, Co-req PH281	3
PH 281	Electromagnetism Lab	Co-req PH280	1
PH 282	Mechanics II	PH175, MT106	3
TOTAL CREDIT HOURS			31

Semester 2.2

CODE	COURSE DESCRIPTION	PREREQUISITE	CREDIT HOURS
CH 217	Environmental Chemistry	CH 113, Co-req CH218	2
CH 218	Environmental Chemistry Lab	Co-req CH217	1
EN 210	Communication Studies II	EN209	4
MT 216	Sequences, Series & Approximations	MT215	4
PH 283	Electronics	Co-req PH284	3
PH 284	Electronics Lab	Co-req PH283	1
PH 285	Atomic & Nuclear Physics	PH 280	3
PSY 1014	Introduction to Psychology	None	3
TOTAL CREDIT HOURS			21

Co-requisite courses can be repeated without the accompanying course(s) if already passed. Students doing 0-credit courses in the first semester 1.1 (EN101 / MT101 if necessary), can complete required courses in Semesters 1.2 and 1.3 respectively.