

SCIENCE

■ SCIENCE

ASSOCIATE IN SCIENCE (A.S.) DEGREE

TRACK A - TRACK B

This degree program is intended individuals who wish to pursue a career in science or a related field. Because of the diverse requirements of the different sciences, two routes leading to the associate degree are provided: Track A and Track B.

The **Track A** program is for those who plan to go into the fields of forestry, home economics, mortuary science, nutrition (or dietetics), optometry, physical education or plant science.

Track B is for those who desire to go into astronomy, biochemistry, biology, biophysics, chemistry, geochemistry, geology, geophysics, marine biology, meteorology, oceanography, pharmacy, physics or preprofessional studies (premedical, pre dental or preveterinarian).

Note: At least the bachelor's degree is usually required of individuals planning to work in science or a related area. Therefore, students should take the CCRI Associate in Science Degree program with the expectation of transferring to a four-year college or university. The choice of which track to follow and which elective credits to selected should be made in consultation with an advisor from one of the science departments in accordance with transfer requirements of the four-year school.



ADMISSIONS REQUIREMENTS:

- To be admitted to this program, applicants must have:
- A high school diploma or GED.
- Minimum level of math preparation in order to take and successfully complete MATH 1200 (College Algebra) in the first semester.
- Have taken previous science courses or take CHEM 1000 (Basic Skills Chemistry) and PHYS 1000 (Physical Science) prior to beginning the program.

■ TRACK A (SCIA)

This program is intended for those who plan to go into the fields of forestry, home economics, mortuary science, nutrition (or dietetics), optometry, physical education or plant science.

GENERAL EDUCATION REQUIREMENTS

COURSE NO.	COURSE TITLE	CREDITS
<input type="checkbox"/> ENGL 1010*	Composition I	3
<input type="checkbox"/> Foreign Language or Elective**	Select 2 courses	6
<input type="checkbox"/> MATH ***	4 sequential math courses	12
<input type="checkbox"/> SPCH 1100 OR Literature	Oral Communication I OR Literature course	3
<input type="checkbox"/> Electives****	Select 7	21
TOTAL GENERAL EDUCATION CREDITS		45

***ENGL** - Placement test may require enrollment in ENGL 1005 first. In that case, ENGL 1005 may be used as elective credit.

** **Foreign Language** - If less than two years of a modern foreign language were taken in high school, then two semesters of French or German are required and should be taken through intermediate level.

Other foreign languages may be accepted with permission of the Dean of Business, Science and Technology.

*****MATH** - Placement Test required, then four sequential courses from this list depending on placement score: MATH 1200, MATH 1210, MATH 1900, MATH 1910, MATH 1920, MATH 2910 and MATH 2990. If placement test indicates enrollment in MATH 0500 or 0600, these courses, although required, are not accepted as degree credit. Students should take Placement Test prior to enrolling. **NOTE: Students wishing to transfer to a bachelor's degree program in biology should take math courses up through MATH 1910. Students preparing for bachelor's degrees in either chemistry or physics should take math courses up through and including MATH 2910.**

******Electives** – Select necessary courses via consultation with a science department advisor. Consult requirements of the transfer school.

MATH 1510 (Scientific Programming) and **MATH 1510** (Statistical Analysis I) recommended as math electives.

MAJOR REQUIREMENTS

COURSE NO.	COURSE TITLE	CREDITS
<input type="checkbox"/> BIOL 1001	General Biology – Organismal AND General Biology - Cellular	4 4
<input type="checkbox"/> BIOL 1002	AND / OR	
<input type="checkbox"/> CHEM 1030*	General Chemistry I*	5
<input type="checkbox"/> CHEM 1100	AND General Chemistry II	5
	AND / OR	
<input type="checkbox"/> PHYS 1030	General Physics I	4
<input type="checkbox"/> PHYS 1040*	AND General Physics II	4
TOTAL MAJOR REQUIREMENTS		16-18

Total Program Credits

61-63

*Select 2 pairs of sequential science courses from the list above for a total of 16-18 credits Note: Before selecting CHEM 1030, contact the Chemistry Department for a placement test. Test should be taken prior to enrolling in the program.

Tip:

Full-time students should take
15-16 credits each semester

■ TRACK B (SCIB)

Track B is for those who desire to go into astronomy, biochemistry, biology, biophysics, chemistry, geochemistry, geology, geophysics, marine biology, meteorology, oceanography, pharmacy, physics or preprofessional studies (premedical, pre dental or preveterinarian).

GENERAL EDUCATION REQUIREMENTS

COURSE NO.	COURSE TITLE	CREDITS
<input type="checkbox"/> ENGL 1010* P	Composition I*	3
<input type="checkbox"/> ENGL	Literature Course	3
<input type="checkbox"/> Foreign Language**	Select 2 courses	6
<input type="checkbox"/> MATH***	4 sequential Math courses***	12-14
<input type="checkbox"/> SPCH 1100	Oral Communication I	3
<input type="checkbox"/> Electives****	See advisor	7
TOTAL GENERAL EDUCATION CREDITS		34-36

* **English** - All students take a Placement Test and enroll in ENGL 1005 or ENGL 1010. Students required to take ENGL 1005 will then have to take ENGL 1010. ENGL 1005 may be used as elective credit

** **Foreign Language** - If less than two years of a modern foreign language taken in high school, then two semesters of French or German are required and should be taken through intermediate level. Other foreign languages may be accepted with permission of the Dean of Business, Science and Technology.

*** **Math** - Placement test required, then four sequential courses required from this list depending on placement score: MATH 1200, MATH 1210, MATH 1900, MATH 1910, MATH 1920, MATH 2910, MATH 2990. If placement test indicates enrollment in MATH 1200 or MATH 1210, complete these courses as early as possible. *If placement test indicates enrollment in MATH 0500 or 0600, these courses, although required, are not be accepted as degree credit. Students should take Placement Test prior to enrolling. **NOTE: Students wishing to transfer to a bachelor's degree program in Biology should take math courses up through MATH 1910. Students preparing for bachelor's degrees in either Chemistry or Physics should take math courses up through and including MATH 2910.**

**** **Electives** - Select courses necessary in consultation with a Science Department advisor. Consult requirements of school to wish students wish to transfer. Scientific Programming (MATH 1510) and Statistical Analysis I (MATH 1550) are recommended as mathematics electives.

Tip:

Full-Time Students should take a minimum of 15-16 credits each semester.

MAJOR REQUIREMENTS

COURSE NO.	COURSE TITLE	CREDITS
<input type="checkbox"/> BIOL 1001	General Biology – Organismal	4
AND		
<input type="checkbox"/> BIOL 1002	General Biology – Cellular	4
AND / OR		
<input type="checkbox"/> CHEM 1030*	General Chemistry I*	5
AND		
<input type="checkbox"/> CHEM 1100 P	General Chemistry II	5
AND / OR		
<input type="checkbox"/> PHYS 1030	General Physics I	4
AND		
<input type="checkbox"/> PHYS 1040 P	General Physics II	4
<input type="checkbox"/> Science	Select 8-10 credits from: astronomy (ASTR), biology (BIOL), chemistry (CHEM), geology (GEOL) or physics (PHYS)	8-10
TOTAL MAJOR REQUIREMENTS CREDITS		26-28

Total Program Credits

60-64

*Note: Before selecting CHEM 1030, contact the Chemistry Department for a placement test. Test should be taken prior to enrolling in the program.