GENERAL STUDIES
SCIENCE SPECIALIZATION
Associate of Science (AS)

Advising Sheet – Suggested Course Sequence

Student Name _____ Faculty Advisor _____

REQUIRED COURSES	CR	PRE-REQUISITE COURSES	APPROVED COURSE SUBSTITUTIONS	TERM THAT I PLAN TO TAKE OR √ TAKEN
SDV 100 College Success Skills	1			
ENG 111 College Composition I	3	See Placement Requirements		
ENG 112 College Composition II	3	ENG 111		
MTH 163 Precalculus I	3		See Note 1	
MTH 164 Precalculus II	3	MTH 163	See Note 1	
CHM 111 General Chemistry I	4	MTH 163 Readiness		
CHM 112 General Chemistry II	4	CHM 111		
BIO 101 General Biology I or PHY 201 General College Physics I or PHY 241 University Physics I	4	Math Modules 1-3 and ENG 111-readiness; MTH 163 or MTH 173; MTH 173	See Note 2	
BIO 102 General Biology II or PHY 202 General College Physics II or PHY 242 University Physics II	4	BIO 101; PHY 201; PHY 241	See Note 2	
Laboratory Science or Advanced Math Elective	4		See Note 3	
Laboratory Science or Advanced Math Elective	3		See Note 3	
History Elective	3		See Note 4	
History Elective	3		See Note 4	
Social/Behavioral Science Elective	3		See Note 5	
Social/Behavioral Science Elective	3		See Note 5	
Literature Elective	3		See Note 6	
Humanities Elective	3		See Note 7	
Transfer Elective	3		See Note 8, Note 9	
Transfer Elective	3		See Note 9	
Total Minimum Credits to Complete	**60**			

NOTES:

1. Science students must complete two of the following math courses: MTH 157, MTH 163, MTH 164, MTH 166, MTH 173, MTH 174, MTH 270, MTH 277, or MTH 279. Please note that students cannot receive credit for both MTH 166 and MTH 163/MTH 164. Students intending to transfer to VCU must take MTH 163 and MTH 164 to receive credit for the VCU Precalculus course. MTH 173 and MTH 174 are recommended for chemistry and physics majors. Biology majors should consult with their intended transfer institution and their advisor to choose the most appropriate math courses.
2. Students must complete one of the following lab sequences: BIO 101/102, PHY 201/202, or PHY 241/242. In general, biology majors should choose BIO 101/102. Physics majors should complete PHY 241/242.
3. Science students need 7 credits of science/advanced math electives and may choose from the following courses: BIO 101, BIO 102, BIO 170, BIO 206, BIO 256, CHM 241, CHM 245, PHY 201, PHY 202, PHY 241, PHY 242, MTH 157, MTH 173, MTH 174, MTH 277, and MTH 279. Please note that students cannot count both PHY 201/202 and PHY 241/242 toward their degree. Please note that many of the listed course have prerequisites. Students intending to major in environmental science should consult with their advisor and transfer institution on whether ENV 121 and ENV 122 may be appropriate courses for them. Physics majors should consider choosing the advanced math electives from the list above. With permission from the Division of Mathematics, Natural and Health Sciences, students intending to major in certain health science majors such as Clinical Laboratory Science, Dental Hygiene, Radiation Science, Occupational Therapy, or Exercise Science may use BIO 141/BIO 142 or to count as these science electives. BIO 150 may also be used as a science elective for Health Science majors. Please check with your advisor to plan out your classes.
4. The history elective requirements can be satisfied by the following courses: HIS 101, HIS 102, HIS 111, HIS 112, HIS 121, HIS 122 or any other HIS course approved by the student's advisor.
5. The social/behavioral science elective can be satisfied by approved transfer courses with the following prefixes: PSY, SOC, ECO, GEO, PLS, and HIS.
6. The literature requirement can be satisfied by any 200-level English literature course, exclusive of composition and creative writing courses.
7. See website (www.jtcc.edu/humanitieselectives) for a list of approved conceptual and applied humanities electives.
8. Students who are interested in pursuing a career in science education should take EDU 200 for this course.
9. See http://www.jtcc.edu/transferelectives for list of Approved Transfer Electives.