



# Natural Science: Associate in Science Concentration in Engineering

SAMPLE

**2020-21**  
(60 credits)

The Associate in Science is a transfer degree designed for students pursuing STEM-related educational and career goals.

**This is an example of an educational plan that can serve as a guideline to create your own academic pathway.**

Year 1			Year 2		
<b>Fall Semester</b>			<b>Fall Semester:</b>		
ENG 100	Composition I Prereq: "C" or better in ENG 22 or placement into ENG 100, or "C" or better in ENG 23 and corequisite enrollment in ENG 100X or approval of designated Language Arts representative	3	DA/DH/DL	Diversification: Arts or Humanities or Literature	3
MATH 241 (FQ)	Calculus I Prereq: Grade of "C" or better in Math 140 "C" or equivalent	4	FG (A/B/C)	Foundation: Global & Multicultural Perspectives	3
CHEM 161	General Chemistry I Prereq: Math 103 "C" or better or placement in Math 135.	3	PHYS 272	General Physics II Prereq: Credit for Math 242 and "C" or better in PHYS 170	3
CHEM 161L	General Chemistry Lab I Prereq: Credit or registration in CHEM 161	1	PHYS 272L	General Physics II Laboratory Prereq: Credit or registration in Phys 272	1
Elective		3	MATH 243	Calculus III Prereq: Grade of "C" or better in MATH 242	3
			Elective		3
		Credits 14			Credits 16
<b>Spring Semester:</b>			<b>Spring Semester:</b>		
MATH 242	Calculus II Prereq: Grade of "C" or better in MATH 241 or equivalent	4	DS	Diversification: Social Science	3
CHEM 162	General Chemistry II Prereq: Chem 161 "C" or better, cr for or registration in Math 135.	3	FG (A/B/C)	Foundation: Global & Multicultural Perspectives	3
PHYS 170	General Physics I Prereq: Credit for Math 241 or higher	4	MATH 244	Calculus IV Prereq: "C" or better in MATH 243	3
PHYS 170L	General Physics I Laboratory Coreq: Credit for or registration in PHYS 170	1	CE 270 <b>OR</b>	Applied Mechanics I Prereq: PHYS 170; credit for or registration in MATH 243	3/4
			EE 160 <b>OR</b>	<b>OR</b> Programming for Engineers Prereq: Credit for or registration in MATH 140, Rec Prep: ICS 101 <b>OR</b> Basic Circuit Analysis I Prereq: Credit for or registration in MATH 243 or higher, credit for or registration in PHYS 272 <b>OR</b> Intro to Modern Physics Prereq: Cr for PHYS 272 * 272L, and cr for or reg in Math 243	
			EE 211 <b>OR</b>		
			PHYS 274 <b>OR</b>		
			SCI 295V	<b>OR</b> Instructor Consent	
Elective		3	Elective		3/2
		Credits 15			Credits 15
<b>Summer Semester:</b>			<b>Summer Semester:</b>		
		Credits			Credits
		Total Credits for the Year 29			Total Credits for 2 Years 60

NSCI-ENGR

Notes:

- Cumulative GPA of 2.0 or higher for all course work taken in fulfillment of A.S. degree.
- Generally, any one course can fulfill only one area, e.g., SP 151, SP 231, SP 251 can fulfill either OC or DA, but not both. Certain natural science courses can fulfill both DB and DY requirements.
- No more than 12 credits in any combination of independent study or cooperative education may apply to the degree requirements.
- When there is a break in enrollment (not attending fall or spring semester), you must use the graduation requirements in effect at the time you return to WCC.

- If your bachelor's degree has been determined, you may be fulfilling specific course requirements for the 4-year degree here at WCC and applying those courses to the AA degree as elective credits.
- Electives: Any transfer-level course in any field to achieve 60 credits.
- The last day for graduation certification is the last day of instruction.
- **Check course core designation at the Class Availability website. Course core designation may differ at the various UH campuses.**