



# Natural Science: Associate in Science Concentration in Physical Science

2019-20  
 (60 credits)

SAMPLE

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 which can serve as a guideline to create your own academic pathway.**

Year 1			Year 2		
Fall Semester			Fall Semester:		
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	DB	Diversification: Biological Sciences	3
			PHYS 272	General Physics II Prereq: Credit for Math 242 and "C" or better in PHYS 170 General Physics II Corequisite: PHYS 272L.	3
CHEM 161	General Chemistry I Prereq: Math 103 "C" or better or placement in Math 135. General Chemistry I Corequisite: registration in CHEM 161L. General Chemistry I Recommended Prep: High School chemistry, CHEM 100, or CHEM 151.	3	PHYS 272L	General Physics II Laboratory Prereq: Credit or or registration in Phys 272	1
CHEM 161L	General Chemistry Lab I Prereq: Credit or registration in CHEM 161	1	FG (A/B/C)	Foundation: Global & Multicultural Perspectives	3
Elective		3	Natural Sci Elct		3
		Credits 14			Credits 16
Spring Semester:			Spring Semester:		
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 I Prereq: Chem 161 "C" or better, or for or registration in Math 135. General Chemistry I Corequisite: CHEM 162L.	3	FG (A/B/C)	Foundation: Global & Multicultural Perspectives	3
CHEM 162L	General Chemistry Lab II Prereq: credit for or registration in Chem 162	1	Natural Sci Elect		3
PHYS 170*	General Physics I Prereq: Credit for Math 241 or higher General Physics I Corequisite: PHYS 170L and credit for or reg. in MATH 206 or equivalent, or consent of instructor.	4	Elective		3
PHYS 170L*	General Physics I Laboratory Coreq: Credit for or registration in PHYS 170	1	Elective		2
Elective		3			
		Credits 16			Credits 14
Summer Semester:			Summer Semester:		
		Credits			Credits
Total Credits for the Year		30	Total Credits for 2 Years		60

NSCI-PSC

Notes:

- \*PHYS 151/L (3/1) and PHYS 152/L (3/) may be taken in lieu of PHYS 170/L and PHYS 272/L.
- 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 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.
- 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.**

<p><b>FOUNDATIONS</b>  <u>Written Communication (FW): ENG 100</u>          Required: A total of 3 credits</p> <p><u>Quantitative Reasoning (FQ):</u> Met by the Math requirement in the concentration</p> <p><u>Global &amp; Multicultural Perspectives:</u>          Required: A total of 6 credits from two different groups          FGA: <b>ANTH 151, ART 175, HIST 151</b>          FGB: <b>ANTH152, ART 176, GEOG 102, HIST 152</b>          FGC: <b>REL 150</b></p>	<p><b>PHYSICAL CONCENTRATION</b></p> <p>CHEM 161/I (3/1) and CHEM 162/L (3/1)          MATH 241(4) and MATH 242 (4)          PHYS 151/L (3/1) <u>or</u> 170/L (4/1)          PHYS 152/L (3/1) <u>or</u> 272/L (3/1)</p>	
<p><b>DIVERSIFICATION: HUMANITIES</b>          Required: A total of 3 credits</p> <p><u>Arts (DA)</u>  <b>ART 101, 104D, 105B, 105C, 107, 108, 111,112, 113, 114, 115, 116, 123, 126, 189, 202, 207, 208, 213, 214, 220, 223, 224, 243, 244, 251, 253, 260, CM 120, 204C, 126, 220, 223, 240, 242, 280, 286, 295A, 295B, DNCE 121, 122, 131, 132, 221, 231, 270, ENG 204A, 204B, 204C, 280, HUM 100, 269V(1-6), HWST 130, 131, 135, 136, 222, ICS 123, 203, JOUR 200, 270, 286, MUS 108, 114 (2)*, 121B(2)*, 121C(2)*, 121D(2)*, 121F(2)*, 121Z(2)*, 122B(2)*, 122C(2)*, 122D(2)*, 122F(2)*, 122Z(2)*, 130F(2)*, 211(2), 221C(2)*, 222C(2)*, 253, 280, SP 151, 231, 251, 253, THEA 101, 131, 132, 133, 211, 220, 221, 222, 223, 225, 231, 232, 233, 240, 260, 280</b>          *Any combination that totals 3 credits will be considered the equivalent of one semester course.</p> <p><u>Humanities (DH)</u>  <b>ART 269V(1-6), CM 255, HIST 230, 231, 232, 241, 242, 260, 281, 282, 284, 285, HWST 107, 115, 140, 255, 270, 273, 275, 275L(1), 285 (4), LING 102, MUS 106, 107, 166, 177, PHIL 100, 101, 102, 211, 213, REL 151, 201, 202, 205, 206, 207, THEA 177</b></p> <p><u>Literature (DL)</u>  <b>ENG 270, 271, 272</b></p>	<p><b>DIVERSIFICATION: NATURAL SCIENCES</b>          Required: A minimum of 3 biological science area (DB)</p> <p><u>Biological Sciences (DB)</u>  <b>AG 120, ANSC 142, 151, 152, 253, 261, 262, 271, AQUA 106, 201, BIOL 100, 101, 124, 171, 172, 200, 265, 275, BOT 101, 130, 160, 205, 210, FSHN 185, IS 201 (2), MICR 130, OCN 102, PHRM 203, PHYL 141, 142, ZOOL 101, 154, 200, 254</b></p> <p><b>DIVERSIFICATION: SOCIAL SCIENCES</b>          Required: A total of 3 credits</p> <p><u>Social Sciences (DS)</u>  <b>ANTH 175/175L, 210, BOT 105, ECON 130, 131, 220, FAMR 230, GEOG 151, 252, ICS 100, JOUR 150, PACS 108, POLS 110, 120, 130, 180, 243, PSY 100, 170, 202, 212, 224, 240, 250, 251, 257, 260, 270, SOC 100, 218, 231, 250, 251, SP 260, SOCS 225, SW 200, WS 151, 200, 202</b></p> <p><b>NATURAL SCIENCES ELECTIVES</b>          Required: A total of 6 credits</p> <p><u>Biological Sciences (DB)</u>  <b>AG 120, ANSC 142, 151, 152, 253, 261, 262, 271, AQUA 106, 201, BIOL 100, 101, 124, 171, 172, 200, 265, 275, BOT 101, 130, 160, 205, 210, FSHN 185, IS 201 (2), MICR 130, OCN 102, PHRM 203, PHYL 141, 142, ZOOL 101, 154, 200, 254</b></p>	<p><b>NATURAL SCIENCES ELECTIVES (Continued)</b></p> <p><u>Electrical Engineering:</u> <b>EE 160</b></p> <p><u>Science:</u> <b>SCI 295V</b></p> <p><u>Information &amp; Computer Sciences:</u> <b>ICS111, 141, 211, 241</b></p> <p><u>Math:</u> <b>MATH 100, 103, 115, and above</b></p> <p><u>Natural Sciences Lab</u>  <b>ANSC 142L, 151L, 152L, 261L, 262L, 271L, AQUA 106L, 201L, ASTR 110L, 250L, BIOL 100L, 101, 124L, 171L, 172L, 200L, 265L, 275L, BOT 101L, 130L, 205, 210, CHEM 100L, 151L, 152L, 161L, 162L, 272L, 273L, GEOG 101L, GG 101L, 210, 211, 212, 213, 214, IS 201, MICR 140L (2), OCN 201L, PHYS 122L, 151L, 152L, 170L, 272L, PHYL 141L, 142L, SCI 260L, ZOOL 101, 200L</b></p> <p><u>Physical Sciences (DP):</u> <b>AERO 150, ASTR 110, 130, 180, 181, 250, 281, 294V, ATMO 101, BIOC 141, CHEM 100, 151, 152, 161, 162, 272, 273, GEOG 101, GG 101, 103, 166, MET 101, OCN 201, PHYS 122, 151, 152, 170, 272</b></p>

Electives: Any transfer-level course in any field to achieve a total of 60 credits.