



# Natural Science: Associate in Science Concentration in Information & Communication Technology

SAMPLE

**2018-19**  
(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 which 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	ICS 212 <b>OR</b> ICS 215	Program Structure Prereq: "C" or better in ICS 211 <b>OR</b> Intro to Scripting Prereq: "C" or better in ICS 211	3
ICS 111	Intro to Computer Science I Prereq: Math 103 "C" or better	3	FG (A/B/C) DA/DH/DL	Foundation: Global & Multicultural Perspectives Diversification: Arts or Humanities or Literature	3 3
ICS 141	Discrete Math for Computer Science I Prereq: "C" or better in Math 103	3	NS Sequence*	Pre-Computer Science Concentration Lecture First Semester	3
MATH 241(FQ)	Calculus I Prereq: Grade of "C" or better in Math 140 "C" or equivalent	4	NS Sequence*	Pre-Computer Science Concentration Lab First Semester	1
Elective		3			
		Credits 16			Credits 13
<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
ICS 211	Intro to Computer Science II Prereq: "C" or better in ICS 111	3	FG (A/B/C)	Foundation: Global & Multicultural Perspectives	3
ICS 241	Discrete Math for Computer Science II Prereq "C" or better in ICS 141	3	NS Sequence*	Pre-Computer Science Concentration Lecture Second Semester	3
Elective		3	NS Sequence*	Pre-Computer Science Concentration Lab Second Semester	1
Elective		2	DB	Diversification: Biological Science	3
		Credits 15	Elective		3
					Credits 16
<b>Summer Semester:</b>			<b>Summer Semester:</b>		
		Credits			Credits
		Total Credits for the Year 31			Total Credits for 2 Years 60

NSCI-ICT

Notes:

- \*Natural Science Sequence – CHEM 161 offered fall & spring semesters; PHYS 151 offered fall only; PHYS 170 offered spring only
- Cumulative GPA of 2.0 or higher for all course work taken in fulfillment of A.S. degree.
- 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.
- 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></p> <p><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>ART 175, HIST 151, ANTH 151</b> FGB: <b>ART 176, HIST 152, ANTH152, GEOG 102</b> FGC: <b>REL 150</b></p>	<p><b>Information &amp; Communication Technology CONCENTRATION</b></p> <p><b>ICS 111 (3), ICS 141 (3), ICS 211 (3), ICS 212 or ICS 215 (3), ICS 241 (3)</b> <b>MATH 241(4), MATH 242 (4)</b></p> <p>Natural Science Sequence (Complete one group)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">__CHEM 161</td> <td rowspan="4" style="text-align: center; vertical-align: middle;"><b>OR</b></td> <td style="padding: 2px;">__PHYS 151</td> <td rowspan="4" style="text-align: center; vertical-align: middle;"><b>OR</b></td> <td style="padding: 2px;">__PHYS 170 (4)</td> </tr> <tr> <td style="padding: 2px;">__CHEM 161L (1)</td> <td style="padding: 2px;">__PHYS 151L (1)</td> <td style="padding: 2px;">__PHYS 170L (1)</td> </tr> <tr> <td style="padding: 2px;">__CHEM 162</td> <td style="padding: 2px;">__PHYS 152</td> <td style="padding: 2px;">__PHYS 272</td> </tr> <tr> <td style="padding: 2px;">__CHEM 162L (1)</td> <td style="padding: 2px;">__PHYS 152L (1)</td> <td style="padding: 2px;">__PHYS 272L (1)</td> </tr> </table>	__CHEM 161	<b>OR</b>	__PHYS 151	<b>OR</b>	__PHYS 170 (4)	__CHEM 161L (1)	__PHYS 151L (1)	__PHYS 170L (1)	__CHEM 162	__PHYS 152	__PHYS 272	__CHEM 162L (1)	__PHYS 152L (1)	__PHYS 272L (1)
__CHEM 161	<b>OR</b>	__PHYS 151		<b>OR</b>		__PHYS 170 (4)									
__CHEM 161L (1)		__PHYS 151L (1)				__PHYS 170L (1)									
__CHEM 162		__PHYS 152				__PHYS 272									
__CHEM 162L (1)		__PHYS 152L (1)	__PHYS 272L (1)												
<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, 113, 114, 115, 116, 123, 189, 202, 207, 208, 213, 214, 220, 223, 224, 243, 244, 251, 253, 260, CM 120, 204C, 220, 240, 280, 286, DNCE 121, 122, 131, 132, 221, 231, ENG 204A, 204B, 204C, 280, HUM 100, 269V(1-6), HWST 130, 131, 135, 136, 222, ICS 123, 203, JOUR 120, 200, 220, 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, 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: 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>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, PHRM 203, ZOOL 101, 141, 142, 154, 200, 254</b></p>														