

# BSc General Degree Requirements (Prior to Fall 2024)

The BSc General Degree consists of 120 units. At least 72 units must be courses offered by the Faculty of Science. At least 18 units must be taken in courses offered by the Faculty of Arts. A maximum of 18 units in courses offered by faculties other than Science and Arts can be taken. If an outside minor is selected, then a maximum of 30 units in courses not offered by the faculties of Science and Arts is permitted.

Symbols: ( ) Equivalent courses: credit can only be obtained in **ONE** of those courses † That level or higher. For example: STAT 200<sup>†</sup> means any STAT course at the 200, 300 or 400 level ‡ See note below

## 24 units JUNIOR CORE REQUIREMENT Note a maximum 42 at 100 level for degree includes junior core

6 ENGLISH (max 3 WRS)	6 PHYSICAL SCIENCES	6 MATHEMATICAL SCIENCES	6 LABORATORY SCIENCES
ENGL 102, 103, 125 (excludes ENGL 150) WRS 100, 101, 102, 104	CHEM 101, 102 PHYS 114, 124 (144), 126 (181, 130, 146) ASTRO 120, 122(101)	MATH 111, 134/144/154 (117, 114 <sup>^</sup> ), 136/146/156 (118, 115 <sup>^</sup> ), 125 (127) CMPUT 101, 174, 175, 191, 195 STAT 151 (161), 181 <sup>^</sup> No longer offered	BIOL 107, 108 EAS 100, 105 PSYCH 104

## 36 units MAJOR REQUIREMENT with at least 12 at 300+ completed at UofA choose Major and Minor or Double Major (no minor)

Courses applicable to more than one area such as BIOCH, PALEO, GEOPH, and MA PH are ALL used towards the major or minor, not both.

PSYCHOLOGY <small>(limited options with non-science minor)</small>	PHYSICS	PHYSICAL SCIENCES (min 42)	MATHEMATICS
STAT 151 (161, PSYCH 213) <sup>†</sup> 6 PSYCH 104, 105 6 PSYCH 258, 275, 282 6 PSYCH 223, 239, 241 6 Arts/Science PSYCH 200+ 3 Science PSYCH 300+ 3 Arts PSYCH 300+ 3 Science PSYCH 400-level 3 Arts PSYCH 400-level	6 PHYS 144 (124), 181 (146, 126) 9 PHYS 244, 271 (208), 281 3 PHYS 294 or 295 6 PHYS <sup>†</sup> Options 3 PHYS 310, 362, 372, 381 9 PHYS <sup>†</sup> 300+	9 CHEM 101, 102, 261 6 PHYS 144 (124), 181 (146, 126) 3 PHYS 271 (208) 3 CHEM 211, 241, PHYS 294 12 Physical Sciences <sup>†</sup> 300+ 9 Physical Sciences <sup>†</sup> Options  Minimum 12 in each of Chemistry and Physics courses  <sup>†</sup> Chosen from ASTRO, BIOCH, BIOPH, CHEM, GEOPH, MA PH or PHYS  PHYS major or minor <b>cannot be combined</b> with a CHEM or PHYS major or minor	3 MATH 134, 144, 154 (117, 114 <sup>^</sup> ) 3 MATH 136, 146, 156 (118, 115 <sup>^</sup> ) 3 MATH 125 (127) 6 MATH 214 (217), 315 (317, 215 <sup>^</sup> ) 3 MATH 216 (if you have MATH 117 you must substitute with MATH <sup>†</sup> 200+) 3 MATH 225 (227) 3 MATH 226, 228 <sup>^</sup> , 256 or 334(336) 9 MATH or MA PH Options 3 MATH or MA PH 400-level
<sup>†</sup> Required but not part of the *36, PSYCH 213 preferred  <b>NOTE:</b> PSYCH = PSYCO	<sup>†</sup> Chosen from ASTRO, BIOPH, GEOPH, MA PH, or PHYS		<b>Overall Major must include:</b> 9 MATH and/or MA PH at 300+  <sup>^</sup> No longer offered

CHEMISTRY	EARTH & ATMOSPHERIC SCIENCES	STATISTICS	COMPUTING SCIENCES
6 CHEM 101, 102, 6 CHEM 261 (264+266), 263 (265+267) 3 CHEM 211, 241, 282 9 CHEM or BIOCH Options 9 CHEM 300+ 3 CHEM 400-level	3 EAS 100 21 EAS <sup>†</sup> Options 9 EAS <sup>†</sup> 300+ 3 EAS <sup>†</sup> 400-level  <sup>†</sup> Chosen from EAS, GEOPH, PALEO	12 STAT 151(161), 252, 265, 266 12 STAT Options 3 STAT 378 6 STAT 300+ 3 STAT 400-level See advisor about STAT 181, 276 & 281	3 CMPUT 174 3 CMPUT 175 6 CMPUT 201, 204, 229, 272, 291 12 CMPUT Options 9 CMPUT 300+ 3 CMPUT 400-level

## BIOLOGICAL SCIENCES BIOS=BIOCH, BIOIN, BIOL, BOT, CELL, ENT, GENET, IMIN, MA SC, MMI (except MMI 100 & 133), MICRB, NEURO, PALEO, PHYSL, PMCOL, ZOO

3 BIOL 107 3 BIOL 108 3 BIOL 207 or 208 3 <a href="#">Ecology, evolution or diversity</a> 3 <a href="#">Genetics, molecular (or micro-) biology</a> 3 <a href="#">Physiology, cell, developmental biology</a> 18 BIOS 200, 300 and 400 level	EED, GMB, PCDB subject areas do not include BIOCH, CELL, MMI, NEURO, PHYSL, PMCOL	<b>Must include:</b> 9 <b>with a <a href="#">laboratory component</a></b> (Excludes: BIOL 107, 108) (Students with both BIOL 207 and 208 will satisfy 3 units of the required 9 units with a <a href="#">laboratory component</a> requirement.)  <b>Overall Major must include:</b> 3 BIOS at the 400 level and 9 BIOS at the 300 level or higher
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## 24 units MINOR REQUIREMENT

**Science Minor** Min 24 with at least 6 at 300+ completed at UofA

PSYCHOLOGY	PHYSICS	PHYSICAL SCIENCES (min *27)	MATHEMATICS
STAT 151 (161, PSYCH 213)† 6 PSYCH 104, 105 3 PSYCH 258, 275, 282 3 PSYCH 223, 239, 241 6 Arts/Science PSYCH 200+ 3 Science PSYCH 300+ 3 Arts PSYCH 300+  †Required but not part of the *24 PSYCH 213 preferred  <b>NOTE:</b> PSYCH = PSYCO	6 PHYS 144 (124), 181 (146, 126) 9 PHYS 244, 271 (208), 281 3 PHYS 294 or 295 3 PHYS 310, 362, 372, 381 3 PHYS† 300+  † Chosen from ASTRO, BIOCH, GEOPH, MA PH, or PHYS	9 CHEM 101, 102, 261 6 PHYS 144 (124), 181 (146, 126) 6 Physical Sciences† 300+ 6 Physical Sciences† Options  Minimum 9 in each of Chemistry and Physics courses  †Chosen from ASTRO, BIOCH, BIOPH, CHEM, GEOPH, MA PH or PHYS  PHYSC major or minor <b>cannot be                      combined</b> with a CHEM or PHYS major or minor	3 MATH 134, 144, 154 (117, 114^) 3 MATH 136, 146, 156 (118, 115^) 3 MATH 125 (127) 3 MATH 214 (217) 3 MATH 225 (227) 3 MATH 226, 228^, 256 or 315 (317, 215^) 6 MATH or MA PH Options  <b>Overall Minor must include:</b> 6 MATH† 300+ at UofA ^ No longer offered
CHEMISTRY	EARTH & ATMOSPHERIC SCIENCES	STATISTICS	COMPUTING SCIENCE
6 CHEM 101, 102, 6 CHEM 261 (264+266), 263 (265+267) 3 CHEM 211, 241, 282 3 CHEM or BIOCH 200+ 6 CHEM 300+	3 EAS 100 15 EAS† Options 6 EAS† 300+  † Chosen from EAS, GEOPH, PALEO	12 STAT 151 (161), 252, 265, 266 6 STAT Options 3 STAT 378 3 STAT 300+ See advisor about STAT 181, 276 & 281	3 CMPUT 174 3 CMPUT 175 6 CMPUT 201, 204, 229, 272, 291 6 CMPUT Options 6 CMPUT 300+
BIOLOGICAL SCIENCES	BIOINFORMATICS	BIOINFORMATICS	BIOINFORMATICS
BIOS= BIOCH, BIOIN, BIOL, BOT, CELL, ENT, GENET, IMIN, MA SC, MMI (except MMI 100 & 133), MICRB, NEURO, PALEO, PHYSL, PMCOL, ZOO	(Paired with BIOS major) 3 BIOL 207 or 221 3 GENET 270 6 CMPUT 174(274), 175(275) 6 CMPUT 201, 291 6 BIOIN 301, 401^  ^ Requires GENET 3XX and CMPUT 3XX as prerequisites; Courses used in <b>BIOIN</b> minor <b>CANNOT</b> also be used for courses in the major	(Paired with BIOS major) 3 BIOL 207 or 221 3 GENET 270 6 CMPUT 174(274), 175(275) 6 CMPUT 201, 291 6 BIOIN 301, 401^	(Paired with CMPUT major) 9 BIOL 107, 108, 207 3 GENET 270 6 BIOIN 301, 401^ 6 CMPUT 201, 204, 229, 272, 291, 301, 366, 391, 404, 466
3 BIOL 107 3 BIOL 108 3 BIOL 207 or 208 3 <a href="#">Ecology, evolution or diversity</a> † 3 <a href="#">Genetics, molecular (or micro-) biology</a> † 3 <a href="#">Physiology, cell, developmental biology</a> † 6 BIOS 200+  †EED, GMB, PCDB subject areas do not include BIOCH, CELL, MMI, NEURO, PHYSL, PMCOL	<b>Overall Major must include:</b> 6 BIOS at the 300 level or higher		

**Arts Minor** Min 24 units with at least 6 at 300+ completed at UofA including [course requirements](#) specified by Faculty of Arts

Ancient & Medieval Studies Anthropology Arts & Design Central/East European Studies Christian Theology Classics Comparative Literature Creative Writing Drama	East Asian Studies Economics English Film Studies French German History History of Art, Design & Visual Culture	Human Geography International Studies Italian Studies Latin American Studies Linguistics Music Native Studies Philosophy Polish	Political Science Religious Studies Russian Scandinavian Science, Technology & Society Sociology Spanish Ukrainian Ukrainian Folklore Women's and Gender Studies
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**Outside Minor** Min 24 - 30 units including [course requirements](#) specified by faculties of Business or Agriculture, Life and Environmental Sciences

BUSINESS	AGRICULTURE	HUMAN ECOLOGY	NUTRITION
6 ECON 101, 102 3 ACCTG 211 3 SEM 301 6 FIN 201, MARK 201, OM 252, SEM 322 (321) 6 Business Options (Overall must have 6 at 300+)	12 AN SC 101, AREC 200, PL SC 221 REN R 210 12 AN SC 300+, AREC 300+, ENCS 300+, PL SC 300+, REN R 307, 341, 360, 364, 376, 442, 443, 444, 445, 446, 462, 464, 465, 467, 474, 476, 482, 483	3 HECOL 100 9 HECOL 300+ 12 HECOL	3 NUTR 100 9 NU FS 305, 356, 373† 12 NUTR 380 (480), NU FS 200, 223, 363, 374, 377, 427, 428  †Requires CHEM 261, 263 as pre-requisites, CHEM 102 pre or co-requisite
<b>GRADUATION REQUIREMENTS</b> GPA of at least 2.0 on the last 60 credited to the degree with letter grades GPA of at least 2.3 on all courses successfully completed in the Major GPA of at least 2.0 in the final Fall/Winter (satisfactory standing) Majors at least 12 units at 300+ and Minors at least 6 units 300+ completed at the UofA		<b>*Note:</b> Credit will be granted in only one of: - ANAT 200, REHAB 350, PHER 350, KIN 100, NURS 106, NURS 140 - STAT 151, PSYCH 213 or SOC 210 (only when STAT 151 is NOT required) in any Science degree	