

# Mining Engineering Pathway (UofA) 2022 – 2023 Catalog Year

<i>Prerequisite Courses (if needed)</i>				Required Courses				
				1 <sup>st</sup> Semester (16-17)	2 <sup>nd</sup> Semester (17-18)	3 <sup>rd</sup> Semester (17-18)	4 <sup>th</sup> Semester (17-18)	5 <sup>th</sup> Semester
<b>MATHEMATICS:</b> MAT 051, 052, 053, 055, 056, 057 (1 credit each) Diagnostic Math Modules	MAT 121/122 (3-4) Inter- mediate Algebra	MAT 151/152 (3-4) College Algebra and	MAT 182 (3) Trigonometry <b>OR</b> MAT 187 (5) Pre-Calculus	MAT 220/221 (4-5) Calculus I	MAT 230/231 (4-5) Calculus II	MAT 240/241 (4-5) Calculus III	MAT 276/277 (3-4) Modern Differential Equations	
<b>PHYSICS:</b>		PHY 111 (4) General Physics I	PHY 112 (4) General Physics II <b>OR</b> 1 year high school physics*		PHY 121 (4) University Physics I: Mechanics	PHY 131 (4) University Physics II: Electricity & Magnetism <sup>6</sup>		
<b>CHEMISTRY:</b>			CHM 130 (3) & CHM 130LL (1) Fundamental Chemistry <b>OR</b> 1 year high school chemistry*	CHM 151 (3) & CHM 151LL (1) General Chemistry I and General Chemistry I Laboratory	CHM 152 (3) & CHM 152LL (1) General Chemistry II and General Chemistry II Laboratory			
<b>ENGINEERING:</b>				ECE 102 (2) Engineering Analysis Tools & Design	ECE 103 (2) Engineering Problem Solving & Design	ECE 211 (3) Engineering Mechanics- Statics  ECE 205 (3) <u>(NEW Course)</u> Intro to Mining Engineering	ECE 215 (3) Mechanics of Materials  EEE 202 (5) Circuits and Devices I	
<b>ENGLISH:</b>			WAC 101 (3) Writing Across the Curriculum	ENG 101 (3) First Year Composition I	ENG 102 (3) First Year Composition II			
<b>GENERAL EDUCATION:</b>				<b>Recommended Humanities course: ECE 150 (3)</b> Exploring Engineering and its impact on Society.		<b>SB with H or G or both (3)</b> if not taken with HU. See Academic Advisor for more information. <b>AND HU with H or G or both (3).</b> See Academic Advisor for more information.	<b>SB chosen from COM 100 or COM 110 or COM 230 (3)</b> Introduction to Human Communication or Interpersonal Communication or Small Group Communication  <b>HU with L and C (3)</b> See Academic Advisor for more information. DAH 255, ENH 255, or MHL 204 recommended	