

Analytics and Decision Sciences (ADS) – MODULE CHECKLIST

(Effective Sep 2022, revised Feb 2022)

Students should note the mathematics requirement for some of the courses in this module.

Minor in Analytics and Decision Sciences	
<p><u>Admissions Requirements:</u> Completion of first-year requirements including:</p> <p>1.0 Economics 1021A/B <i>Micro Economics</i> AND Economics 1022A/B <i>Macro Economics</i> with no mark less than 60% *</p> <p>0.5 from: Mathematics 1230A/B <i>Calculus for the Social Sciences</i> with no mark less than 80% Calculus 1000A/B <i>Calculus I</i> with no mark less than 55%</p> <p>0.5 from: Mathematics 1229A/B <i>Methods of Matrix Algebra</i> with no mark less than 80% Mathematics 1600A/B <i>Linear Algebra I</i> with no mark less than 55%</p> <p>1.0 Business 1220E <i>Intro to Business</i> and 1.0 Psychology 1000 or 1000W/X <i>Intro to Psychology</i> with no mark less than 60%.</p> <p><i>Students who fail to meet the 60% in Economics 1021A/B and Economics 1022A/B, or the former Economics 1020 may take a Minor module if they have a mark of at least 60% in each of Economics 2150A/B and Economics 2152A/B.</i></p> <p>Business Administration 1220E and/or Psychology 1000 or 1000W/X may be completed in year 2.</p> <p><u>Module:</u> (4.5 courses)</p> <p>1.5 courses normally taken in second year: Economics 2122A/B or 2222A/B <i>Econometrics I</i> Economics 2123A/B or 2223A/B <i>Econometrics II</i> ADS 2298A/B <i>Introductory Operations Research</i></p> <p>1.0 course normally taken in third year: Philosophy 2293A/B <i>Conditions for Analytical Thinking and Decision Making</i> Psychology 2135A/B <i>Cognitive Psychology</i></p> <p>0.5 ADS 3864A/B <i>Data Visualization for Management and Social Sciences</i></p> <p>1.0 course from ADS 3293A/B <i>Risk and Simulation</i> Economics 3386A/B <i>Time Series Analysis and Forecasting</i> ADS 4293A/B <i>Professional Analytics*</i></p> <p>0.5 ADS 4294A/B <i>Complex Problems</i></p> <p>Note: Other courses as approved by School of MEM may be substituted. Please consult MEM for more information.</p> <p>*Note: Students intending to work in industry are strongly encouraged to complete ADS 4293A/B.</p>	<p>Careers Aligned with Analytics and Decision Sciences</p> <p>Job alignment (depending on modular combinations)</p> <ul style="list-style-type: none"> • Business Analyst • Sports Analytics • Healthcare Data Analyst • Operations Analyst • Digital Marketing Management • Transportation Logistics Management • Financial Analyst • Market Research • Process Improvement Analyst • Forecasting/Planning Analyst • Business Intelligence Analyst • Election/Campaign Analyst • Resource Planning Analyst • Public Policy Analyst <p>Sample Modular Combinations</p> <ul style="list-style-type: none"> • BMOS Accounting with ADS • BMOS Global Commerce with ADS • BMOS Finance and Administration with ADS • BMOS Organizational and Human Resources with ADS • BA Finance with ADS • BA Economics with ADS • BA Political Science with ADS • BA Sociology with ADS • BA Philosophy with ADS • BA Psychology with ADS • BA History with ADS <p>Note: Economics 2123B normally required Economics 2122A as a prerequisite, and Economics 2223B normally required Economics 2222A as a prerequisite. However, starting September 2020, students with a minimum grade of 70% in Statistics 2035 may enroll directly in Econ 2123A/B or 2223A/B. See details.</p> <p>Note: Students are responsible for the accuracy and completeness of their program.</p> <p>Progression and graduation requirements: Policies-registration, progression, graduation</p>