

ENTREPRENEURIAL ANALYTICS MAJOR, BACHELOR OF SCIENCE (BS)

Graduates with this degree will combine rigorous analytical skills with a strong foundation in entrepreneurship, new venture creation, and value proposition design. Graduates will be able to analyze data in a variety of forms. They will be skilled at interpreting findings to help guide decision-making and organizational development. Analytical skills developed include programming, information systems, applied statistics, data analysis, qualitative data analysis, and data visualization.

The program goal of the BS in Entrepreneurial Analytics will prepare graduates to apply their analytical skills in order to lead new product or service launch initiatives or to work in entrepreneurial companies that are either in the capital raising or early growth phases of their life-cycles. These companies disproportionately account for new job growth.

Program prerequisites to be completed before declaring into this major: ENGL 201 or equivalent English proficiency, MATH 142 or MATH 161/HONS 161 or equivalent math proficiency, CSCD 210 or CSCD 211 and MISC 311.

Required Decision Science Courses

DSCI 245	BUSINESS STATISTICS 1	4
DSCI 346	BUSINESS STATISTICS 2	4
DSCI 352	MIXED RESEARCH METHODS, SECURITY AND ETHICS FOR ANALYTICS	4
DSCI 353	DATA MANAGEMENT, CLEANING AND IMPUTATION	4
DSCI 445	OPTIMIZATION VIA MANAGEMENT SCIENCE	4
DSCI 450	DATA VISUALIZATION	4

Required Entrepreneurship Courses

ENTP 388	THE ENTREPRENEURIAL EXPERIENCE	4
ENTP 411	FINDING AND EVALUATING OPPORTUNITIES	4
ENTP 412	BUSINESS MODEL DESIGN	4

Required Management Information Systems Courses

MISC 373	BUSINESS DATABASE APPLICATIONS	4
MISC 374	SPREADSHEET MODELING FOR BUSINESS APPLICATIONS	4
MISC 485	ADVANCED DATABASE APPLICATIONS DEVELOPMENT	4

Electives—choose at least three from the following, or see your department advisor for other approved options

CSCD 300	DATA STRUCTURES	12
CSCD 320	ALGORITHMS	
CSCD 423	RANDOMIZED ALGORITHMS AND PROBABILISTIC ANALYSIS	
CMST 433	LEADERSHIP, INNOVATION AND SUSTAINABILITY	
CMST 466	PUBLIC RELATIONS IN BUSINESS AND FOR ENTREPRENEURSHIP	
DSCI 446	BUSINESS FORECASTING	
DSCI 447	DESIGN OF EXPERIMENTS	
DSCI 448	BUSINESS SIMULATION	
DSCI 449	MULTIVARIATE DATA ANALYSIS	

DSCI 498	SEMINAR (variable credit course) or MISC 498 SEMINAR	
ENTP 387	BUSINESS STARTUP RESEARCH	
ENTP 389	BUSINESS FEASIBILITY: PLAN AND PITCH	
ENTP 438	ENTREPRENEURIAL AND SMALL BUSINESS FINANCE	
MISC 371	BUSINESS APPLICATIONS PROGRAM DESIGN	
MISC 372	DATA COMMUNICATION AND NETWORK FUNDAMENTALS	
MISC 486	INFORMATION SECURITY MANAGEMENT	
MISC 487	DIGITAL ENTREPRENEURSHIP	
Required Capstone		
DSCI 490	ANALYTICS SENIOR CAPSTONE	4
Total Credits		64

University Competencies and Proficiencies

English (<http://catalog.ewu.edu/undergraduate-degree/#newitemtext>)
 Quantitative and Symbolic Reasoning (<http://catalog.ewu.edu/undergraduate-degree/#mathcompproficiencytext>)
 Placement and Clearance (<http://catalog.ewu.edu/placement/>)
 Prior Learning/Sources of Credit AP, CLEP, IB (<http://catalog.ewu.edu/prior-learning/>)

General Education Requirements (<http://catalog.ewu.edu/undergraduate-degree/#generaleducationrequirements>) (GER)

- Minimum Credits—180 cumulative credit hours
 - 60 upper-division credits (300 level or above)
 - 45 credits in residence (attendance) at Eastern, with at least 15 upper-division credits in major in residence at Eastern
- Minimum Cumulative GPA ≥ 2.0

Breadth Area Core Requirements (BACR)

Humanities and Arts (<http://catalog.ewu.edu/undergraduate-degree/#humanitiesandfineartsgecrtext>)
 Natural Sciences (<http://catalog.ewu.edu/undergraduate-degree/#naturalsciencesgecrtext>)
 Social Sciences (<http://catalog.ewu.edu/undergraduate-degree/#socialsciensesgecrtext>)

University Graduation Requirements (<http://catalog.ewu.edu/undergraduate-degree/#universitygraduationrequirements>) (UGR)

Diversity Course List (<http://catalog.ewu.edu/undergraduate-degree/#cultureandgenderdiversityintheuslisttext>)
 Foreign Language (<http://catalog.ewu.edu/undergraduate-degree/#foreignlanguageugrtext>) (for Bachelor of Arts)
 Global Studies Course List (<http://catalog.ewu.edu/undergraduate-degree/#internationalstudiesrequirementtext>)
 Minor or Certificate (<http://catalog.ewu.edu/undergraduate-degree/#majorminororcertificateugrtext>)
 Senior Capstone Course List (<http://catalog.ewu.edu/undergraduate-degree/#capstonecourselisttext>)

Application for Graduation (use EagleNET (<https://inside.ewu.edu/eaglenet/>)) must be made at least two terms in advance of the term you expect to graduate (undergraduate and post-baccalaureate).

Use the Catalog Archives (<https://catalog.ewu.edu/archives/>) to determine two important catalog years (<http://catalog.ewu.edu/undergraduate-degree/#activecatalogruletext>).

Degree Works (<https://inside.ewu.edu/records-and-registration/degree-works/>) calculates based on these two catalog years.

- a. The catalog *in effect at the student's first term* of current matriculation is used to determine **BACR** (Breadth Area Credit Requirements) **and** **UGR** (Undergraduate Graduation Requirements).
 - b. The catalog *in effect at the time the student declares a major or minor* is used to determine the program requirements.
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