ANALYTICS AND ENTERPRISE SYSTEMS, B.S.

Today’s companies use enterprise resource planning software to integrate all business functions within an organization. This software-based major emphasizes both business analytics and enterprise resource planning to provide students a unique and in-demand learning experience that prepares them for meaningful careers.

Because of industry’s strong demand for graduates with knowledge in analytics and enterprise resource planning (ERP), a bachelor’s degree in analytics and enterprise systems from Saint Louis University will enhance the market value of graduates holding a business degree. The integrated nature of this major can make it rewarding to students interested in a career in analytics, ERP or both areas.

Organizations are looking for IT graduates with knowledge of IT tools related to analytics and ERP. Students pursuing this major may also earn an SAP (Systems Applications Products) certification. As a member of the SAP University Alliance, the Chaifetz School of Business (https://www.slu.edu/business/) is able to provide students hands-on experience with SAP software and allow students to put classroom theory into practice.

Students may choose to pursue a minor in business analytics in addition to their chosen major.

Curriculum Overview

Students who major in analytics and enterprise systems at SLU will learn to collect, organize and analyze data generated by business activities, including purchasing, marketing, manufacturing and distribution.

In addition to fulfilling the requirements for the Bachelor of Science, students complete 18 credits in information technology management courses, 3000 level or above.

Internships

St. Louis’ metropolitan location provides many business internship opportunities, which allow students to gain career-related work experience while applying classroom experiences to practice. Most internships are paid, and students may earn academic credit.

Careers

Graduates with degrees in analytics and enterprise systems join a global network of nearly 20,000 alumni from the Richard A. Chaifetz School of Business. Students who graduate with a major in analytics and enterprise systems have a strong set of skills in problem-solving, information utilization and business communication. Possible career paths include:

- Data mining
- Data analysis and modeling
- Process optimization
- Risk management/assessment
- Predictive analytics

Admission Requirements

Freshman

Begin your application for this program at www.slu.edu/apply (http://www.slu.edu/apply.php). Saint Louis University also accepts the Common App.

All applications are thoroughly and carefully reviewed. Solid academic performance in college preparatory coursework is a primary criterion in reviewing a freshman applicant’s file.

To be considered for admission to any Saint Louis University undergraduate program, the applicant must be graduating from an accredited high school, have an acceptable HiSET exam score or take the General Education Development (GED) test. Beginning with the 2021-22 academic year, undergraduate applicants will not be required to submit standardized test scores (ACT or SAT) in order to be considered for admission. Applicants will be evaluated equally, with or without submitted test scores.

Transfer

Begin your application for this program at www.slu.edu/apply (http://www.slu.edu/apply.php).

Applicants must be a graduate of an accredited high school or have an acceptable score on the GED. An official high school transcript and official test scores are required only of those students who have attempted fewer than 24 transferable semester credits (or 30 quarter credits) of college credit. Those having completed 24 credits or more of college credit need only submit a transcript from previously attended college(s).

Transfer students must have a cumulative 2.70 GPA to be admitted to the accounting program and a 2.50 GPA for all other majors. In reviewing a transfer applicant’s file, the office of admission holistically examines the student’s academic performance in college-level coursework as an indicator of the student’s ability to meet the academic rigors of Saint Louis University.

International Applicants

Begin your application for this program at www.slu.edu/apply (http://www.slu.edu/apply.php).

All admission policies and requirements for domestic students apply to international students along with the following:

- You must demonstrate English Language proficiency (https://catalog.slu.edu/academic-policies/office-admission/undergraduate/english-language-proficiency/).
- Proof of financial support must include:
  - A letter of financial support from the person(s) or sponsoring agency funding your time at Saint Louis University.
  - A letter from the sponsor’s bank verifying that the funds are available and will be so for the duration of your study at the University.
- Academic records, in English translation, of students who have undertaken postsecondary studies outside the United States must include the courses taken and/or lectures attended, practical laboratory work, the maximum and minimum grades attainable, the grades earned or the results of all end-of-term examinations, and any honors or degrees received. WES and ECE transcripts are accepted.
Scholarships and Financial Aid

There are two principal ways to help finance a Saint Louis University education:

- **Scholarships**: Awarded based on academic achievement, service, leadership and financial need.
- **Financial Aid**: Provided in the form of grants and loans, some of which require repayment.

For priority consideration for merit-based scholarships, apply for admission by Dec. 1 and complete a Free Application for Federal Student Aid (FAFSA) by March 1.

For information on other scholarships and financial aid, visit the student financial services office online at https://www.slu.edu/financial-aid/.

Accreditation

The Richard A. Chaifetz School of Business is accredited by the Association to Advance Collegiate Schools of Business (AACSB), the world's largest business education alliance and accrediting body of business schools, ensuring continuous quality improvement in terms of curriculum, instructional resources, student selection, career placement and intellectual contributions and qualifications of the faculty. Fewer than 5 percent of business schools worldwide have achieved AACSB accreditation.

Learning Outcomes

1. Graduates will be able to understand essential business concepts and how the various functional areas of business are related.
2. Graduates will be able to demonstrate knowledge of ethical concepts and corporate social responsibility and be able to evaluate business problems from multiple ethical perspectives.
3. Graduates will be able to identify and structure business problems and propose actionable solutions to business problems and when applicable utilizing appropriate technology.
4. Graduates will be able to demonstrate effective written communication.
5. Graduates will be able to understand how cultures, politics, laws, ethics, and economies influence and impacts business and use tools and concepts to analyze and formulate an international business strategy.
6. Graduates will be familiar with the fundamentals of enterprise systems and analytical applications.
7. Graduates will have the ability to make data driven decisions using analytical tools and techniques.
8. Graduates will have the ability to use enterprise systems to integrate business functions.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Business Common Body of Knowledge (CBK)</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>Arts and Sciences Core Requirements</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td><strong>Analytics and Enterprise Systems Courses</strong></td>
<td></td>
</tr>
<tr>
<td>ITM 3300</td>
<td>Database Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>ITM 3700</td>
<td>Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>ITM 3900</td>
<td>Applied Enterprise Systems Implementation</td>
<td>3</td>
</tr>
<tr>
<td>ITM 4700</td>
<td>Business Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>ITM 4900</td>
<td>Enterprise Systems Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives in Business or Other Areas

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITM 3100</td>
<td>Enterprise Applications Development</td>
<td>3</td>
</tr>
<tr>
<td>ITM 3550</td>
<td>Introduction to ‘Big Data’</td>
<td></td>
</tr>
<tr>
<td>ITM 4910</td>
<td>Information Technology Management Internship</td>
<td></td>
</tr>
<tr>
<td>ACCT 4250</td>
<td>Accounting Information Systems*</td>
<td></td>
</tr>
<tr>
<td>MGT 4403</td>
<td>Sports Analytics</td>
<td></td>
</tr>
<tr>
<td>MKT 4650</td>
<td>Marketing Analytics*</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 120

* A course may not be used to fulfill requirements in two majors/minors, i.e. ACCT 4250 Accounting Information Systems (3 cr) may be used in either the Analytics and Enterprise Systems major/minor or the Accounting major/minor, but not both.

† In addition to completing lower and upper division coursework in all areas of business, each student typically selects a business major before or during the first semester of the junior year. Required credits vary between 18-21 credits and are determined by the appropriate department. To broaden their expertise, students may complete more than one major in business, or a major and a minor in business. However, where courses overlap between two business majors, the course may be counted only once and credited to one functional area, i.e. Sports Marketing may be used in either the Marketing major or the Sports Business major but not both.

‡ Electives may be selected from any area of study within the University, giving the student the opportunity to diversify his/her background.

Continuation Standards

Analytics and Enterprise System students must maintain a 2.0 cumulative GPA in all courses used to fulfill the major.

Students will be on program probation if their GPA in major courses used to fulfill major requirements falls below a 2.00. Students will have one semester to increase their major cumulative GPA to a 2.00; if not, students will not be allowed to register for 3000 or 4000 level major courses.

Students will be automatically placed on university probation if any of the following occur:

- Their Saint Louis University cumulative grade point average falls below 2.00
- Their Saint Louis University semester grade point average is below a 1.00
- More than two ‘incomplete’ or two ‘in-progress’ grades on their academic transcript

During the probationary period, advisors help students achieve academic success by closely monitoring their academic performance.

In order to improve scholastically and demonstrate their ability to make progress toward a degree, students on probation may not register for more than 12 credits in the fall and spring semesters, three credits in the winter term, and no more than one course/four credits in any single summer session term.
The conditions under which a student is dismissed from the school include:

1. Inability to eliminate probationary status within the two semesters subsequent to the assignment of probation or
2. A grade point average deficit of more than 15 points.

For more information, see University Academic Policies and Procedures (https://catalog.slu.edu/academic-policies/academic-policies-procedures/).

**Business Common Body of Knowledge (CBK)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2200</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2220</td>
<td>Accounting for Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>BIZ 1000/1001</td>
<td>Business Foundations</td>
<td>1</td>
</tr>
<tr>
<td>BIZ 1002</td>
<td>Business Foundations Excel Lab</td>
<td>0</td>
</tr>
<tr>
<td>BIZ 3000</td>
<td>Career Foundations</td>
<td>1</td>
</tr>
<tr>
<td>BIZ 4000</td>
<td>Business Capstone</td>
<td>1</td>
</tr>
<tr>
<td>ECON 1900</td>
<td>Principles of Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3120</td>
<td>Intermediate Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3140</td>
<td>Intermediate Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3010</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>IB 2000</td>
<td>Introduction to International Business</td>
<td>3</td>
</tr>
<tr>
<td>ITM 2000</td>
<td>Information Technology with Supply Chains</td>
<td>3</td>
</tr>
<tr>
<td>MGT 2000</td>
<td>Legal Environment of Business I</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3000</td>
<td>Management Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>MGT 4000</td>
<td>Strategic Management and Policy</td>
<td>3</td>
</tr>
<tr>
<td>MKT 3000</td>
<td>Introduction to Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>OPM 2070</td>
<td>Introduction to Business Statistics</td>
<td>3</td>
</tr>
<tr>
<td>OPM 3050</td>
<td>Introduction to Management Science and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Operations Management</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>45</td>
</tr>
</tbody>
</table>

1  All other Business CBK courses must be completed prior to taking BIZ 4000 Business Capstone (1 cr) and MGT 4000 Strategic Management and Policy (3 cr).

**Arts and Sciences Core Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1900</td>
<td>Advanced Strategies of Rhetoric and Research ²</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2250</td>
<td>Conflict, Social Justice and Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 2350</td>
<td>Faith, Doubt and Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 2450</td>
<td>Nature, Ecology &amp; Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 2550</td>
<td>Gender, Identity &amp; Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 2650</td>
<td>Technology, Media &amp; Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 2750</td>
<td>Film, Culture and Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 2850</td>
<td>Nation, Identity and Literature</td>
<td></td>
</tr>
<tr>
<td>Foreign Language Literature</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: ³

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 4000</td>
<td>Business and Professional Writing (strongly recommended)</td>
<td></td>
</tr>
</tbody>
</table>

English Literature

Fine Arts (Art, Art History, Dance, Film Studies, Music, Theatre)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 1200</td>
<td>Public Speaking ²</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1110</td>
<td>Origins of the Modern World to 1500</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 1120</td>
<td>Origins of the Modern World (1500 to Present)</td>
<td></td>
</tr>
<tr>
<td>PSY 1010</td>
<td>General Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two additional courses from the following: 6

- African American Studies
- American Studies
- Anthropology
- History
- Political Science
- Psychology
- Sociology

Women’s and Gender Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1200</td>
<td>College Algebra ⁴</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1320</td>
<td>Survey of Calculus ²</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

One additional Math or Natural Science course ⁵

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 1050</td>
<td>Introduction to Philosophy: Self and Reality</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2050</td>
<td>Ethics</td>
<td>3</td>
</tr>
<tr>
<td>THEO 1000</td>
<td>Theological Foundations</td>
<td>3</td>
</tr>
<tr>
<td>THEO 2xxx</td>
<td>Theology course</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 48

² Must be completed by the end of the sophomore year in order to enroll in business courses junior year.
³ MATH 1510 Calculus I (0.4 cr) or higher-level calculus course may be substituted for MATH 1320 Survey of Calculus (3 cr).
⁴ Students who place out of MATH 1200 College Algebra (0.3 cr) (based on a Math Index score) must replace it with another approved math course.
⁵ MATH course must be approved.

**Graduation Requirements**

To be certified for graduation, a student must complete all course requirements and meet all of the following conditions:

- Apply to graduate.
- Earn a minimum 2.00 cumulative GPA in all SLU coursework; accounting students must earn a minimum 2.70 cumulative grade point average (GPA) in all SLU coursework and earn grades of “C” or higher in all courses that fulfill the major requirements; for all other majors, students must earn a minimum 2.00 cumulative GPA in all major courses that fulfill the major requirements.
- Earn a minimum 2.00 cumulative GPA in all business coursework taken at Saint Louis University.
- Complete the Arts and Sciences core as specified in the business school curriculum.
- Complete 30 of the final 36 credits at the St. Louis campus or an approved study abroad program.
- Complete at least 50% of business coursework in residence at the St. Louis campus.*
- Complete major course requirements in residence at the St. Louis campus.*
• Students transferring from the Madrid campus must complete a minimum of 40 credits of coursework, including a minimum of 30 credits of business coursework in residence at the St. Louis campus.*

* Students may pursue the Economics, International Business or Marketing majors at the St. Louis campus and/or at the Madrid campus. The residency requirement then applies to courses taken at either campus.

Roadmap
Roadmaps are recommended semester-by-semester plans of study for programs and assume full-time enrollment unless otherwise noted.

Courses and milestones designated as critical (marked with !) must be completed in the semester listed to ensure a timely graduation. Transfer credit may change the roadmap.

This roadmap should not be used in the place of regular academic advising appointments. All students are encouraged to meet with their advisor/mentor each semester. Requirements, course availability and sequencing are subject to change.

Course Title Credits
Year One
Fall
MATH 1200 College Algebra 3
BIZ 1000/1002 Business Foundations 1
ENGL 1900 Advanced Strategies of Rhetoric and Research 3
Arts & Sciences Core 3
Arts & Sciences Core 3
Arts & Sciences Core 3
Credits 16
Spring
MATH 1320 or MATH 1510 Survey of Calculus 3
or Calculus I
ECON 1900 Principles of Economics 3
OPM 2070 Introduction to Business Statistics 3
CMM 1200 Public Speaking 3
Arts & Sciences Core 3
Arts & Sciences Core 3
Arts & Sciences Core 3
Credits 15
Year Two
Fall
ACCT 2200 Financial Accounting 3
ITM 2000 Information Technology with Supply Chains 3
IB 2000 Introduction to International Business 3
Arts & Sciences Core 3
Arts & Sciences Core 3
Arts & Sciences Core 3
Credits 15
Spring
ACCT 2200 Accounting for Decision Making 3
BIZ 3000 Career Foundations 3
MGT 2000 Legal Environment of Business I 3
ECON 3120 or ECON 3140 Intermediate Macroeconomics 3
ITM 3700 Business Analytics (Major) 3
Arts & Sciences Core 3
Credits 16
Year Three
Fall
ITM 3300 Database Management Systems (Major) 3
ITM 3900 Applied Enterprise Systems Implementation (Major) 3
ECON 3120 or ECON 3140 Intermediate Macroeconomics 3
FIN 3010 Principles of Finance 3
Arts & Sciences Core 3
Arts & Sciences Core 3
Credits 15
Spring
ITM 4700 Business Data Mining (Major) 3
MKT 3000 Introduction to Marketing Management 3
OPM 3050 Introduction to Management Science and Operations Management 3
Arts & Sciences Core 3
Arts & Sciences Core 3
Credits 15
Year Four
Fall
Major: Analytics and Enterprise Systems Elective 4 3
MGT 3000 Management Theory and Practice (Major: Analytics and Enterprise Systems Elective ) 3
Elective 3
Arts & Sciences Core 3
Arts & Sciences Core 3
Arts & Sciences Core 3
Credits 15
Spring
ITM 4900 Enterprise Systems Practicum 3
MGT 4000 Strategic Management and Policy 5 3
BIZ 4000 Business Capstone 1
Elective 3
Elective 3
Credits 13
Total Credits 120

1 Must have completed by end of sophomore year
2 See list of A&S core required for business students
3 Must take 2nd semester sophomore year unless studying abroad
4 See list of major electives
5 Must have completed all other Business Common Body of Knowledge courses

2+SLU
• Analytics and Enterprise Systems, B.S. (Jeffco 2+SLU)
(http://catalog.slu.edu/academic-policies/office-admission/undergraduate/2pluslu/jeffco/analytics-enterprise-systems/)