

Business Administration, PhD, ~~Logistics and~~ Supply Chain Management and Analytics Emphasis

Admissions Requirements

Applicants must meet the general graduate admission requirements of the Graduate School, described in the UMSL catalog. Students are considered for admission to the Ph.D. in Business Administration only after they have formally applied for admission through the Graduate School. Applications may be completed on-line.

Admission decisions are made based on ~~the basis of~~ past academic record, intellectual ability, GMAT or GRE scores, and career commitment. Applications are accepted from students who have baccalaureate or graduate degrees. Past graduate work may be credited toward degree requirements where appropriate. Applicants must submit:

- Official academic transcripts.
- Official GMAT or GRE results in fields approved by the College of Business Administration.
- ~~Three~~ A minimum of two letters of recommendation (at least ~~two~~ one of which is from ~~individuals~~ an individual with an earned doctorates).
- A statement of objectives for the course of study.
- A current resume or CV.

~~Applications will be accepted beginning in Fall 2019, with an application deadline for all materials, including GMAT or GRE exam score, of Feb 3, 2020.~~

Applications will be accepted for Fall enrollment beginning in the previous Fall. The application deadline for all materials is the first week of February.

Graduate Assistantships

Stipends for research and teaching assistantships (20 hours per week) are awarded to full-time Ph.D. students on a competitive basis. ~~Educational fees are~~ Tuition is waived for graduate assistants.

Degree Requirements

The Ph.D. in the College of Business Administration requires a minimum of ~~69~~ 62 course credit hours, ~~and~~ including a minimum of ~~6~~ 5 dissertation credit hours, beyond the baccalaureate degree. Courses are determined according to the chosen Emphasis Area. To ensure sufficient background for doctoral-level courses,

students must demonstrate appropriate competence in quantitative reasoning, which is evidenced through completion of ~~ECON 4105 and BUS AD 5000~~ prior coursework or ~~their~~ equivalent to be determined by the Ph.D. Program Director. Students must also demonstrate appropriate competence in managerial communication, which is ~~evident~~ evidenced through completion of BUS AD 5100 or equivalent to be determined by the Ph.D. ~~Coordinator~~ Program Director.

Course Requirements

Specific course requirements are determined based on the chosen Emphasis Area within the Ph.D. in Business Administration. The Ph.D. in Business Administration program has ~~a common set of requirements in three areas~~ required courses in four areas: Business & Research Foundations (Section I), ~~Supporting Field~~ Emphasis Area Foundations (Section II), ~~and Other Requirements (Section IV)~~ Research Methods (Section III) and Doctorial Courses (Section IV). ~~Requirements specific to the area of emphasis are in Section III.~~ Electives in the program are included in Section V.

I. Business & Research Foundation Requirement: ~~27~~ 15 credit hours (9 5 courses)

Students are required to take ~~5~~ five Business & Research Foundations courses as advised by the emphasis area Ph.D. Coordinator. These five courses may be waived if students have completed the courses as part of an UMSL program or had equivalent graduate course work at an institution approved by the Graduate Business Programs Office and the emphasis area Ph.D. Coordinator.

| | | |
|-------------------------|------------------------------------------------|---|
| INFSYS 5800 | Management Information Systems | 3 |
| SCMA 5300 | Business Analytics | 3 |
| BUS AD 5900 | Law, Ethics and Business | 3 |
| ACCTNG 5400 | Financial and Managerial Accounting | 3 |
| FINANCE 6500 | Financial Management | 3 |
| MGMT 5400 | Managing People in Organizations | 3 |
| SCMA 5310 | Supply Chain Strategies | 3 |
| INFSYS 6860 | Advanced Data Integration | 3 |
| MKTG 5700 | Integrated Marketing Strategies | 3 |

| | | |
|--------------------------------------|----------------------------------------|--------------|
| SCMA 5320 | Supply Chain and Operations Management | 3 |
| BUS AD 7300 | Management of Supply Chains | 3 |
| Choose one of the following courses: | | 3 |
| MGMT 5600 | Managing and Leading in Organizations | |
| FINANCE 6500 | Financial Management | |
| ACCTNG 5400 | Financial and Managerial Accounting | |
| ECON 5100 | Econometric Theory and Methods | |
| Total Hours | | 27 15 |

~~† The first eight The first eight courses INFSYS 5800SCMA 5300, BUS AD 5900, ACCTNG 5400, FINANCE 6500, MGMT 5600, MKTG 5700, SCMA 5320 will normally be waived if students had the courses as part of an UMSL MBA, MS in IS, or MAcc degree, or had equivalent graduate course work at an institution approved by the Graduate Businss Programs Office and the Ph.D. Coordinator.~~

~~II. Supporting Field Requirement~~ **Emphasis Area Foundation Courses (9 credit hours)**

~~Students must take 9 credit hours of graduate-level courses beyond foundation course work in a supporting field approved by the Ph.D. Coordinator. Supporting fields may include courses within or outside the College of Business Administration and are designed in consultation with the Ph.D. Coordinator.~~
 Students are required to take three emphasis area foundational courses as advised by the emphasis area Ph.D. Coordinator.

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|--------------------|----------------------------------------|----------|
| SCMA 5320 | Supply Chain and Operations Management | 3 |
| SCMA 6321 | Strategic Sourcing | 3 |
| SCMA 6330 | Business Logistics Systems | 3 |
| Total Hours | | 9 |

~~III. Emphasis Area Requirements~~

~~Logistics & Supply Chain Management (LSCM) Emphasis~~

~~The Logistics & Supply Chain Management emphasis requirement includes 33 credit hours.~~

~~Students are required to take the following six courses:~~

| | | |
|----------------------|---------------------------------------------|--------------|
| SCMA 6330 | Business Logistics Systems | 3 |
| SCMA 6350 | Management Science Methods | 3 |
| SCMA 7381 | | 3 |
| SCMA 7390 | Research Seminar in LSCM | 3 |
| SCMA 7393 | Special Topics in LSCM | 3 |
| SCMA 5770 | Supply Chain Management Strategy | 3 |

~~And select at least one of the following:~~ ~~3~~

~~Students are required to take 12 credit hours (four courses) (Not included elsewhere) from the list of approved elective courses for the LSCM emphasis.~~ ~~12~~

| | | |
|------------------------|---------------------------------------------------|--------------|
| SCMA 6331 | Integrated Marketing Strategies | 3 |
| SCMA 6332 | Supply Chain and Operations Management | 3 |
| BUS AD 7300 | Management of Supply Chains | 3 |

Total Hours **33**

III. Research Methods (9 credit hours)

Students are required to take three emphasis area foundation as advised by the emphasis area Ph.D. Coordinator.

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|------------------|-------------------------------------------|----------|
| <u>SCMA 6331</u> | <u>Supply Chain Modeling</u> | <u>3</u> |
| <u>SCMA 6345</u> | <u>Business Analytics and Data Mining</u> | <u>3</u> |
| <u>SCMA 6350</u> | <u>Management Science Methods</u> | <u>3</u> |

Total Hours **9**

IV Doctorial Courses (15 credit hours)

Students are required to take the following 5 courses.

| | | |
|------------------|-----------------------------------|----------|
| <u>SCMA 7381</u> | <u>Advanced Data Analysis</u> | <u>3</u> |
| <u>SCMA 7382</u> | <u>Empirical Research Methods</u> | <u>3</u> |

| | | |
|--------------------|------------------------------------------------|-----------|
| SCMA 7383 | Advanced Optimization | 3 |
| SCMA 7390 | Research Seminar in Supply Chain and Analytics | 3 |
| SCMA 7393 | Special Topics in Supply Chain & Analytics | 3 |
| Total Hours | | 15 |

V. Electives (9 credit hours)

Students must take 9 credit hours of graduate-level elective courses, selected in consultation with their emphasis area Ph.D. Coordinator. If the three courses are selected in a thematic area outside the emphasis area, they are deemed to constitute a “Supporting Field” for the Ph.D.

~~IV~~ V Other Requirements

- ~~Upon completion of coursework, students are advanced to candidacy by successfully completing a comprehensive examination in their area of emphasis and a supporting field examination in their chosen area. Students admitted to the program with a relevant master's degree should pass the comprehensive examination and the supporting field examination within three years of admission to the Ph.D. program. Students admitted to the program with an undergraduate business degree should pass the comprehensive examination and the supporting field examination within four years of admission to the Ph.D. program. Students admitted to the program with an undergraduate degree outside of business should pass the comprehensive examination and the supporting field examination within five years of admission to the Ph.D. program. In these cases, prior coursework will be evaluated for equivalency to Section I course requirements. Exceptions may be made, contingent on approval by the Ph.D. Coordinator.~~ Upon completion of the coursework in Sections I-V, students enroll in BUS AD 7001 Doctoral Research, or BUS AD 7002 Dissertation Research. Students are advanced to candidacy by successfully completing a comprehensive examination in their area of emphasis. Students should take the comprehensive exam in the first semester after completing the coursework in Sections I-V.
- Students will be evaluated annually for satisfactory progress. Students deemed not to be making adequate progress are subject to the policies of the College of Business Administration regarding continuation of their assistantship. Students deemed not to be making adequate progress are subject to the policies of the

Graduate School and the College of Business Administration regarding probation and dismissal from the program.

- Students are required to take a minimum of ~~6 dissertation credit hours~~ 5 credit hours total of BUS AD 7001 Doctoral Research, and BUS AD 7002 Dissertation Research and to defend a dissertation proposal within one year of advancement to candidacy.
- The following requirements are to be completed before or after admission to candidacy:
 - Students are required to present one paper at a regional, national, or international conference, **approved by the dissertation advisor or program advisor**.
 - Students are required to submit one paper, approved by his/her dissertation advisor, to a refereed journal.
- At least two semesters of supervised teaching in the College of Business Administration are required of all doctoral students.
- Students are required to demonstrate competency in teaching during the first year in which they teach in the College of Business Administration. This requirement may be met by successfully completing one or more courses/**programs**.
- The degree is awarded upon successful completion and defense of the Ph.D. dissertation and satisfaction of all Graduate School requirements. The dissertation must be defended within three years of approval of a Ph.D. dissertation proposal.

Justification for request:

With the replenishment of faculty capacity and expertise in the SC&A Department, this new version of PhD in Business Administration with Supply Chain and Analytics Emphasis reflects the Department's new two-pillar focus in both the Supply Chain domain and Business Analytics. Its curriculum is re-designed to provide students with solid and in-depth training in both the supply chain domain knowledge and analytical skills. It also leverages the existing MS in Supply Chain Analytics for program efficiency.

Note that SCMA 7390 and SCMA 7393 are existing doctoral courses with minor changes. The existing PhD doctoral statistics course (formerly BUS AD 7300) is now revised to be SCMA 7381. The former SCMA 7381 (International SCM) is replaced by SCMA 7382 Empirical Research Methods. The only one new doctoral course is SCMA 7383 Advanced Optimization.