### PROPOSAL – 1

### NEW DEGREE PROGRAM

 1. **PROPOSED PROGRAM TITLE:** Master of Science in Supply Chain Management

 2. **CIP CODE REQUESTED:** 52.1301

Link for CIP Codes:  <http://nces.ed.gov/ipeds/cipcode/resources.aspx?y=55>

 3. **PROPOSED STARTING DATE:** Fall 2020

 4. **CONTACT PERSON**

 Name (Provost/Academic Affairs Officer): Dr. Terry Martin

 Title: Senior Vice Provost for Academic Affairs

 Name of Institution: University of Arkansas

 E-mail Address: tmartin@uark.edu

 Phone Number: 479-575-2151

 Name (Program Contact Person): Dr. Brian S. Fugate

 Title: Professor and Department Chair, Supply Chain Management

 Name of Institution: University of Arkansas

 E-mail Address: BFugate@walton.uark.edu

 Phone Number: 479-575-7674

 5. **PROGRAM SUMMARY**

Provide a general description of the proposed program. Include overview of any curriculum additions or modifications; program costs; faculty resources, library resources, facilities and equipment; purpose of the program; and any information that will serve as introduction to the program.

 List degree programs or emphasis areas currently offered at the institution that support the proposed program.

The Sam M. Walton College of Business Master of Supply Chain Management is designed is for early-career supply chain professionals who want to return to school to receive advanced, specialized training in supply chain management. The degree is grounded in an understanding of the increasing complexity and breadth of the supply chain discipline, and within this context, students will apply statistics, statistical modeling, forecasting techniques, operations research techniques, optimization, mathematical techniques, stochastic approaches, operations analysis, and the design and testing of evaluation models.  Effective supply chain management also necessitates cross-functional expertise. Thus, students will choose to specialize in focus tracks to complement their supply chain courses, such as Business Analytics, Enterprise Resource Planning, Retail Supply Chain Management, and Blockchain Enterprise Systems.

 6. **NEED FOR THE PROGRAM**

(Submit Employer Needs Survey Forms)

Provide survey data. Submit numbers that show job availability, corporate demands and employment/wage projections, not student interest and anticipated enrollment. Focus mostly on state needs and less on regional and national needs, unless applicable to the program.

Survey data can be obtained by telephone, letters of interest, student inquiry, etc. Focus mostly on state needs for undergraduate programs; for graduate programs, focus on state, regional and national needs.

Provide names and types of organizations/businesses surveyed.

 Survey data was obtained from letters of interest that were received from several individuals working in prominent positions in the corporate sector. The individuals who responded come from the following firms:

|  |  |  |  |
| --- | --- | --- | --- |
| **Firm** | **Individual** | **Designation** | **Purpose** |
| Walmart | Tracy Rosser | SVP, Transportation | Employer Interest |
| Industry: Retail |
| JBHunt | Mark Greenway | SVP, Human Resources | Employer Interest |
| Industry: Transportation, Logistics |
| ArcBest | Jason Turner | VP, Talent and Growth Initiatives | Employer Interest |
| Industry: Transportation |
| Coca-Cola | Jane Gringer-Flinn | Director, Customer Solutions | Employer Interest |
| Industry: Retail, Manufacturing |
| Kellogg | Brent Sundberg | VP Customer Service, Sales, and Operations Planning | Employer Interest |
| Industry: Retail, Manufacturing |
| Assumption University, Suvarnabhumi Campus, Thailand | N/A | N/A | Dual Degree Interest |
| Industry: Education |
| Shanghai University, Shanghai, China | N/A | N/A | Dual Degree Interest |
| Industry: Education |

 Letters of support should address the following when relevant: the number of current/anticipated job vacancies, whether the degree is desired or required for advancement, the increase in wages projected based on additional education, etc.

 Please see attached Summary of Letters of Support.

 Indicate if employer tuition assistance is provided or if there are other enrollment incentives.

 -Not currently. Some firms have employer tuition assistance programs, on a case by-case basis.

 Describe what need the proposed program will address and how the institution became aware of this need.

 -Industry wide needs are changing and becoming more complex, especially in Arkansas. Employers have voiced a concern in the scarcity of eligible managers with a supply chain education, especially beyond a bachelor’s degree. Due to increased demands from customers, supplier, and shippers, employers need professionals with an advanced specialized understanding of supply chain. They need supply chain experts in innovation, sustainability, and market understanding, who have a broad business perspective. Employees who can adequately assess the most difficult challenges, then integrate solutions and manage long term change. The growing economy in Arkansas is in need of managers and leaders trained in the full skill set of supply chain; functional, technical, and social. Supply chain education must grow and adapt to meet the new and increasing needs of the industry.

 Indicate which employers contacted the institution about offering the proposed program.

 **-**Walmart, JBHunt, ArcBest, Kellogg, ArcBest, Tyson Foods, Transplace

 Indicate the composition of the program advisory committee, including the number of members, professional background of members, topics to be considered by the members, meeting schedule (annually, bi-annually, quarterly), institutional representative, etc.

 -We have an advisory committee through the Supply Chain Management Research Center (SCMRC) of over 30 members from employers to provide feedback and suggestions on the content of the program and career services. The advisory committee meets bi-annually.

 Indicate the projected number of program enrollments for Years 1 - 3.

 -15 students

 Indicate the projected number of program graduates in 3-5 years.

 -We expect enrollment to grow to 25 students in 5 years.

7. **CURRICULUM**

#  Provide curriculum outline by semester (include course number and title).

#  (For bachelor’s degree program, submit the 8-semester degree plan.)

 Give total number of semester credit hours required for the program, including prerequisite courses.

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | Credit Hours |
| 1 | SCMT 5633 | Introduction to Supply Chain Management | 3 |
| 2 | SCMT 5663 | Retail and CPG Supply Chain Management  | 3 |
| 3 | ISYS 5213 | ERP Fundamentals or ISYS 5103 Data Analytics Fundamentals | 3 |
| 4 | ISYS 5363  | Business Analytics  | 3 |
| 5 |  | Concentration Class 1 | 3 |
|  |  |  |  |
|  |  |  |  |
| 6 | SCMT 5623 | Supply Chain Innovation and Technology | 3 |
| 7 | SCMT 5693 | Predictive Supply Chain Analytics  | 3 |
| 8 | SCMT 5683 | Supply Chain Management in Global Business | 3 |
| 9 |  | Concentration Class 2 | 3 |
| 10 |  | Concentration Class 3 | 3 |
|  |  |  | **30** |

Requirements for the Master of Supply Chain Management Degree:

**Supply Chain Management Core Courses (21 hours)**

SCMT 5633 Introduction to Supply Chain Management (Fa) – 3 credit hours

SCMT 5663 Retail and CPG Supply Chain Management (Fa) – 3 credit hours

SCMT 5693 Predictive Supply Chain Analytics (Sp) – 3 credit hours

SCMT 5683 Supply Chain Management in Global Business (Sp) – 3 credit

SCMT 5623 Supply Chain Innovation and Technology (Sp) – 3 credit hours

ISYS 5363 Business Analytics (Fa) – 3 credit hours

Choose one of the following:

ISYS 5213 ERP Fundamentals (Fa or Sp) – 3 credit hours

ISYS 5103 Data Analytics Fundamentals (Fa) – 3 credit hours

**Concentrations (9 hours) -** (in addition to the Supply Chain Management Core Courses, choose three courses within one of the following specializations)

*Business Analytics*

ISYS 5103\* Data Analytics Fundamentals (Fa) – 3 credit hours

ISYS 5503 Decision Support and Analytics (Sp) – 3 credit hours

ISYS 5843 Seminar in Business Intelligence and Knowledge Management (Sp) – 3

 credit hours

ISYS 5833 Data Management Systems (Fa) – 3 credit hours

*Enterprise Resource Planning*

ISYS 5103\* Data Analytics Fundamentals (Fa) – 3 credit hours

ISYS 5213\* ERP Fundamentals (Fa or Sp) – 3 credit hours

ISYS 5223 ERP Configuration and Implementation (Fa or Sp) – 3 credit hours

ISYS 5233 Seminar in ERP Development (Fa or Sp) – 3 credit hours

*Blockchain Enterprise Systems*

ISYS 5213\* ERP Fundamentals (Fa) – 3 credit hours

ISYS 5173 Blockchain Fundamentals (Fa) – 3 credit hours

ISYS 5133 Blockchain and E Business Development (Fa) – 3 credit hours

ISYS 5453 Blockchain and Enterprise Data (Sp) – 3 credit hours

*Finance*

FINN 5223 Financial Markets & Valuation (Fa) – 3 credit hours

FINN 5303 Advanced Corporate Financial Management (Sp) – 3 credit hours

Choose one of the following:

FINN 5333 Investment Theory and Management – 3 credit hours

FINN 5173 Energy Finance and Risk Management (Sp) – 3 credit hours

ACCT 5223 MBA Accounting Analysis – 3 credit hours

ECON 5243 Managerial Economics – 3 credit hours

*Retail*

MKTG 5223 Marketing (Fa) – 3 credit hours

MKTG 5563 Retail Strategy (Sp) – 3 credit hours

MKTG 5523 Marketing Analytics (Sp) – 3 credit hours

MKTG 5553 New Product Development and Strategy (Fa) – 3 credit hours

MKTG 5433 Consumer and Market Research (Sp) – 3 credit hours

*Strategy and Human Resources*

MGMT 5223 Business Leadership and Ethics (Fa) – 3 credit hours

MGMT 5313 Strategic Management (Sp) – 3 credit hours

MGMT 4953 Organizational Rewards and Compensation (Fa or Sp) – 3 credit

MGMT 4263 Organizational Change and Development (Fa or Sp) – 3 credit hours

\*ISYS 5213 or ISYS 5103 that is taken for the Supply Chain Management Core will not count towards the nine hours required for the following specializations: Business Analytics, Enterprise Resource Planning, or Blockchain Enterprise Systems

**Total Hours** **30**

With the approval of the SCMTMS Program Director, any senior-level (4000+) course may be taken for graduate credit. After admission, the student must maintain a 2.85 grade-point average on all graduate coursework and all Supply Chain Management coursework.

**SCMTMS (Part Time):** The Walton College also provides an opportunity for professionals in the workplace to complete the program by taking 6 hours per semester, 5 semester program. For the SCMTMS (part time), approval of the SCMTMS Program Director is required to enroll in more than six hours per semester.

Electives are chosen by the student in consultation with the Sam M. Walton College of Business Graduate Programs Advisor. Approved electives (6 hours) may be any graduate course approved by the Program Director.

With the approval of the Program Director, any senior-level supply chain management course (SCMT 4000+) may be taken for graduate credit. After admission, the student must maintain a 2.85 grade-point average on all graduate coursework and all Supply Chain Management coursework.

Identify new courses *(in italics)* and provide course descriptions.

-NONE

 Identify required general education courses, core courses and major courses.

 -None

For each program major/specialty area course, list the faculty member assigned to teach the course.

 ISYS 5103 Business Analytics Fundamentals

 Faculty Member: Jeff Mullins

 ISYS 5213 ERP Fundamentals

Faculty Member: Sebastian Walter Schuetz
ISYS 5363 Business Analytics

 Faculty Member: Ronald Freeze
SCMT 5633 Intro to Supply Chain Management

 Faculty Member: David Dobryzkowski
SCMT 5623 Supply Chain Innovation and Technology

 Faculty Member: Sebastian Garcia-Dastugue
SCMT 5663 Retail and CPG Supply Chain Management

 Faculty Member: Christian Hofer
SCMT 5693 Predictive Supply Chain Analytics

 Faculty Member: John Aloysius
SCMT 5683 Supply Chain Management in Global Business

 Faculty Member: Remko Van Hoek

Identify courses currently offered by distance technology (with an asterisk\*) and endnote at the end of the document.

 - All required courses are also offered in the blended format.

 Indicate the number of contact hours for internship/clinical courses.

 -None

 State the program admission requirements.

-The Masters of Science in Supply Chain Management (SCMTMS) program is open to students who have earned a bachelor’s degree from an accredited institution and who can present evidence of their ability to do graduate work. “Evidence of ability” means superior grade-point average, an acceptable test score on the Graduate Management Admissions Test (GMAT) or Graduate Record Exam (GRE), and recommendations with respect to ability for successful pursuit of graduate-level work. International applicants and residents aliens must submit an acceptable TOEFL or IELTS score, or complete the Intensive English Language Program (Spring International Language Center) and receive an English proficiency recommendation for admission. Other admissions criteria can be considered on a case by case basis.

 Describe specified learning outcomes and course examination procedures.

-Students will explore innovation as a strategy to improve existing and invent new supply chain processes that will create competitive advantage. Design thinking and leadership assessment techniques will be applied to current industry project. Students will recognize the core processes that are linked throughout the supply chain with importance placed on logistics processes. They will learn integration of purchasing, materials management, and multi-firm logistics planning. Using hands on projects and case studies, students will know to use integration of business processes within an organization for optimal logistics management. They will understand the logistical challenges faced by competing organizations in an environment altered by changes in consumer behavior, technology and globalization. Students will be exposed to a variety of source of data available from different technology sources and use this data to improve supply chain management processes. They will survey standard and advanced analytical techniques used to transform this data into actionable business intelligence and students will gain hands-on experience with these techniques. Many courses will be project based.

 Include a copy of the course evaluation to be completed by the student.

 -The Standard Purdue Course Evaluation form will be used.

 Include information received from potential employers about course content.

 -Potential employers have expressed the need for managers with strong analytical and operational skills, especially in technical understanding, project management, e-business, and a comprehensive grasp of global issues. Just as crucial, employees need solid interpersonal and soft skills; such as a partnership, communication, adaptability, business ethics, how to build productive relationships, and cross-functional collaboration.

 Provide institutional curriculum committee review/approval date for proposed program.

 December 11, 2019

 8. **FACULTY**

 List the names and credentials of all faculty teaching courses for the proposed program. Include college/university awarding degree; degree level; degree field; subject area of courses faculty currently teaching and/or will teach. (For associate degrees and above: A minimum of one full-time faculty member with appropriate academic credentials is required.)

|  |  |  |
| --- | --- | --- |
| **Faculty Member** | **Degree, Subject** | **Institution** |
| John Aloysius | PhD, Operations Management  | Temple University  |
| David Dobryzkowski | PhD, Manufacturing and Technology Management | University of Toledo |
| Brian Fugate | PhD, Logistics | University of Tennessee  |
| Sebastian Garcia-Dastugue | PhD, Logistics | Ohio State University  |
| Christian Hofer | PhD, Supply Chain Management, Logistics, Transportation  | University of Maryland  |
| Remko Van Hoek  | PhD, Economics | University of Utrecht |
| Donnie Williams | PhD, Logistics/ Supply Chain Management | Georgia Southern University  |
| Jeff Mullins | PhD, Information Systems | Arkansas-Fayetteville |
| Ronald Freeze | PhD, Information Systems | Arizona State University  |
| Sebastian Schuetz | PhD, Information Systems | City University of Hong Kong |

 Indicate lead faculty member or program coordinator for the proposed program.

 -Brian Fugate, Professor and Chair, Department of Supply Chain Management

 Total number of faculty required for program implementation, including the number of existing faculty and number of new faculty. For new faculty, provide the expected credentials/experience and expected hire date.

-Six existing SCMT faculty

 -Three existing ISYS faculty

-One new faculty: David Dobryzkowski, expected hire date June 1, 2019

 For proposed graduate programs: Provide the curriculum vita for faculty teaching in the program, and the expected credentials for new faculty and expected hire date.

 - Faculty CV’s attached

 Also, provide the projected startup costs for faculty research laboratories, and the projected number of and costs for graduate teaching and research assistants.

 -There will not be any lab or graduate assistantship costs.

9. **DESCRIPTION OF RESOURCES**

 Current library resources in the field

 Current instructional facilities including classrooms, instructional equipment and technology, laboratories (if applicable)

 New instructional resources required, including costs and acquisition plan

 Existing resources on campus will be used.

10. **NEW PROGRAM COSTS – Expenditures for the first 3 years**

 New administrative costs (number and position titles of new administrators) -none

 Number of new faculty (full-time and part-time) and costs-none

 New library resources and costs -none

 New/renovated facilities and costs-none

 New instructional equipment and costs-none

 Distance delivery costs (if applicable) -none

 Other new costs (graduate assistants, secretarial support, supplies, faculty development, faculty/students research, program accreditation, etc.) -none

 **If no new costs required for program implementation, provide explanation.**

-Existing resources on campus will be used.

-Existing faculty in Supply Chain Management and Information Systems will teach the

 courses.

-All courses are already offered on a regular basis.

 -Marketing and recruiting costs for the program will be supported by the College.

11. **SOURCE OF PROGRAM FUNDING – Income for the first 3 years of program operation**

 If there will be a reallocation of funds, indicate from which department, program, etc.

The program will be initially funded using Walton College operational funds and, eventually, program revenues as they are generated. Start-up marketing and recruiting costs will initially be supported by the College. Administrative responsibilities will be handled by the Supply Chain Management Department Masters Program Coordinator.

Provide the projected annual student enrollment, the amount of student tuition per
credit hour, and the total cost of the program that includes tuition and fees.

Expected student enrollment for the first 3 years is 10-15.

 Tuition and Fees based on current rates for MS in WCOB - 30 hours In-State Tuition & Fees: $642.10/hour, Total=$19,263

 Out-of-State Tuition & Fees: $1620.61/hour, Total=$48,618.30 International Tuition & Fees: $1694.48/hour, Total=$50,834.30

 Indicate the projected annual state general revenues for the proposed program (Provide
 the amount of state general revenue per student).

 Other (grants [list grant source & amount of grant], employers, special tuition rates,
 mandatory technology fees, program specific fees, etc.).

12. **ORGANIZATIONAL CHART REFLECTING NEW PROGRAM**

-Proposed program will be housed in (department/college): Department of Supply Chain Management

13. **SPECIALIZED REQUIREMENTS**

 If specialized accreditation is required for program, list the name of accrediting agency.

 AACSB International

 Indicate the licensure/certification requirements for student entry into the field.

 -None

#  Provide documentation of Agency/Board review/approvals (education, nursing--initial approval required, health-professions, counseling, etc.)

14. **BOARD OF TRUSTEES APPROVAL**

 Provide the date that the Board approved (or will consider) the proposed program.

 March 19, 2020

 Provide a copy of the Board meeting agenda that lists the proposed program, and written documentation of program/unit approval by the Board of Trustees prior to the Coordinating Board meeting that the proposal will be considered.

15. **SIMILAR PROGRAMS**

#  List institutions offering program:

 University of Tennessee, MS in Supply Chain Management

 Arizona State University, MS in Global Logistics

 Michigan State University, MS in Supply Chain Management

Rutgers, MS in Supply Chain Management

Purdue University, MBA in Global Supply Chain and Logistics

University of Texas at Dallas, MS in Supply Chain Management

Pennsylvania State University, MPS in Supply Chain Management

Indiana University, MBA in Supply Chain and Operations

University of Wisconsin-Madison, MBA in Supply chain Management

Iowa State University, Supply Chain Management Graduate Certificate

Ohio State University, MBA in Logistics Engineering, MBA in Operational Excellence

##  Proposed undergraduate program – list institutions in Arkansas

 Proposed master’s program – list institutions in Arkansas and region

 -None

 Proposed doctoral program – list institutions in Arkansas, region, and nation

 State why proposed program needed if offered at other institutions in Arkansas or
 region.

 List institution(s) offering a similar program that the institution used as a model to
 develop the proposed program.

Provide a copy of the e-mail notification to other institutions in the state notifying them of the proposed program. Please inform institutions not to send the response to **“Reply All”**. If you receive an objection/concern(s) from an institution, reply to the institution and copy ADHE on the email. That institution should respond and copy ADHE. If the objection/concern(s) cannot be resolved, ADHE may intervene.

 **Note: A written institutional objection/concern(s) to the proposed program/unit may delay Arkansas Higher Education Coordinating Board (AHECB) consideration of the proposal until the next quarterly AHECB meeting.**

16. **DESEGREGATION**

 State the total number of students, number of black students, and number of other minority students enrolled in related degree programs, if applicable.

 N/A

1. **INSTITUTIONAL AGREEMENTS/MEMORANDUM OF UNDERSTANDING (MOU)**

 If the courses or academic support services will be provided by other institutions or organizations, include a copy of the signed MOU that outlines the responsibilities of each party and the effective dates of the agreement.

1. **ACADEMIC PROGRAM REVIEW**

 Provide scheduled program review date (within 10 years of program implementation date).

 AACSB’s next visit is scheduled for 2021-2022

1. **PROVIDE ADDITIONAL INFORMATION IF REQUESTED BY ADHE** **STAFF**
2. **INSTRUCTION BY DISTANCE TECHNOLOGY**

 If the proposed program will be offered by distance technology, provide the following information: Summarize institutional policies on the establishment, organization, funding and management of distance courses/degrees.

 An academic department intending to propose new distance programs are required to identify the program’s anticipated costs, funding sources, demand, and need for library resources, and to present plans to address the increased workload. The proposal needs to be approved by Vice Provost for Distance Education, Academic College, University Course and Programs Committee, Graduate Council (if at the graduate level), Faculty Senate, Provost, Board of Trustees, and Arkansas Department of Higher Education. Change requests for existing distance courses and programs follow similar approval processes. Global Campus assists programs during the conceptualization, market research, and planning stage. Once programs are approved, it provides start-up capital and course development funds as well as in-kind support by Global Campus’s instructional designers, academic technologists, and marketing and recruitment teams. Global Campus also supports compliance with interstate regulatory requirements. All distance courses are certified to be complete only when they meet appropriate quality standards.

 Describe the internal organizational structure that coordinates (development, technical support, oversight) distances courses/degrees.

Global Campus is a supporting unit that provides assistance in course development and maintenance, technical support for both faculty and students, quality assurance, and compliance to all online programs across the campus.

Summarize the policies and procedures to keep the technology infrastructure current.

IT Services maintains the technology infrastructure to ensure the security and compatibility of enterprise systems as guided by the [Computer and Network Security Policy](https://its.uark.edu/policies/network-security/), [Data Management Use and Protection Policy](https://vcfa.uark.edu/policies/fayetteville/uits/3095.php), and [Acquisition of Enterprise Systems Policy](https://vcfa.uark.edu/policies/fayetteville/uits/3096.php). The [Computer Activities Council](https://provost.uark.edu/committees/cac.php) (CAC), the information technology governance structure at the University, facilitates participation of students, faculty, staff, and administrators in long-range planning and setting of priorities for IT Services.

Updates to applications (learning management system, video conferencing software, web conferencing software, etc.) are reviewed by application administrators and stakeholder representatives on a regular basis to ensure continuity of operation, security, and high levels of performance and support.

The Global Campus Instructional Design and Support Services team, along with the IT Services Director of Academic Technology and Innovation, work with faculty to identify, evaluate, pilot, and deploy emerging technology solutions that will enhance teaching and learning.

 Summarize the procedures that assure the security of personal information.

Procedures are in accordance with the [Computer and Network Security Policy](https://its.uark.edu/policies/network-security/), [Code of Computing Practices](https://its.uark.edu/policies/code/), and [Privacy Policy](https://its.uark.edu/policies/privacy/). The IT Security group monitors university systems and performs security audits of resources. IT Services also provides security services such as security information, anti-virus software, and security alerts.

University systems (student information system, learning management system, etc.) require authentication. Privileged supervisory accounts are limited and managed by system administrators.

Users must agree to the Code of Computing Practices and take a security quiz when setting up their UARK accounts. Users agree to comply with security mechanisms and to keep login credentials private.

Links to the [privacy policies of third-party tools used in online instruction](https://tips.uark.edu/privacy-policy-links/) are provided in the information section of online courses and support sites.

 Provide a list of services that will be outsourced to other organizations (course materials, course management and delivery, technical services, online payment, student privacy, etc.).

The only service outsourced is online proctoring service. The University of Arkansas partners with ProctorU for online test proctoring services for some online exams.

**ADDENDUM**

**Letters of Support**

**Master of Science in Supply Chain Management Proposal**

**Department of Supply Chain Management, University of Arkansas, Fayetteville**

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