

SUPPLY CHAIN AND OPERATIONS MANAGEMENT GRADUATE CREDIT CERTIFICATE PROGRAM

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| Person-in-Charge | Dinesh R. Pai |
| Program Code | SCOPM |
| Campus(es) | Harrisburg |

The goal of this 12 credit certificate program is to better prepare operations and supply chain management professionals with those contemporary skills and concepts necessary for the effective and efficient management of the physical, informational, and financial flows that collectively form the networks that add value to firms competing on a global scale. Students will learn to analyze, develop, and implement those functions related to sourcing materials, producing goods and services, delivering products, returning residuals, and planning how these are combined into a network.

Effective Semester: Spring 2020
Expiration Semester: Spring 2025

Admission Requirements

Applicants apply for admission to the program via the Graduate School application for admission (<https://gradschool.psu.edu/graduate-admissions/how-to-apply/>). Requirements listed here are in addition to Graduate Council policies listed under GCAC-300 Admissions Policies (<https://gradschool.psu.edu/graduate-education-policies/>). International applicants may be required to satisfy an English proficiency requirement; see GCAC-305 Admission Requirements for International Students (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-300/gcac-305-admission-requirements-international-students/>) for more information.

This curriculum is designed for working operations and supply chain management professionals. Successful applicants will normally have, before the start of their first semester, at least two years' post baccalaureate work experience in operations management, supply chain management, project management, or a closely allied field.

The applicant's baccalaureate degree should be in business, engineering, economics, information sciences, or a related field and the applicant should have completed a college-level course in microeconomic principles with a course in supply operations and/or chain management strongly recommended. A minimum undergraduate GPA of 2.8 is required unless the student has earned a graduate degree from an accredited university.

Ideally, the applicant should have a working knowledge of Microsoft Excel and business statistics, plus a basic understanding of accounting principles.

Certificate Requirements

Requirements listed here are in addition to requirements listed in Graduate Council policy GCAC-212 Postbaccalaureate Credit Certificate Programs (<https://gradschool.psu.edu/graduate-education-policies/>)

gcac/gcac-200/gcac-212-postbaccalaureate-credit-certificate-programs/).

| Code | Title | Credits |
|-------------------------------|--|-----------|
| Required Courses | | |
| MNGMT 522 | Operations and Supply Chain Management | 3 |
| Electives | | |
| Select two of the following: | | 6 |
| MANGT 510 | Project Management | |
| SCIS 540 | Transportation and Distribution Management | |
| SCIS 546 | Procurement and Supply Management | |
| SCIS 570 | Supply Chain Engineering | |
| Culminating Experience | | |
| SCIS 565 | Supply Chain Strategy (Capstone Course) | 3 |
| Total Credits | | 12 |

Courses

Graduate courses carry numbers from 500 to 699 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

Learning Outcomes

1. Explain the importance of operations and supply chain management and its role in a firm's productivity and strategy.
2. Develop and apply tools to manage projects, improve processes, demand forecasting, sourcing, and inventory management.
3. Apply supply chain analytics tools to drive data driven business decisions.
4. Discuss how strategic sourcing can contribute to organizational goals.
5. Apply economic concepts to transportation. Explain how modal economics have led to current transportation policy. Explain the problems with current public policy with regard to transportation.

Contact

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| Campus | Harrisburg |
| Graduate Program Head | Dinesh Ramdas Pai |
| Director of Graduate Studies (DGS) or Professor-in-Charge (PIC) | Dinesh Ramdas Pai |
| Program Contact | Amy J Atkins 777 W. Harrisburg Pike, PSU E355 School of Business Administration Middletown PA 17057 akj11@psu.edu (717) 948-6142 |

Program Website View (<https://harrisburg.psu.edu/business-administration/supply-chain-management/graduate-credit-certificate-operations-supply-chain-management/>)