Executive MBA and Master’s Degrees

- Executive MBA (EMBA) Program
- Global Leadership Executive MBA (GLEMBA) Program
- Certificates and Degree Programs with an emphasis in Project Management
- Certificates and Degree Programs with an emphasis in Product Lifecycle and Supply Chain Management
- Master of Science in Healthcare Management for Physicians
- Healthcare Management Executive MBA for Physicians
- Executive Education Program in Organizational Behavior and Coaching
- Executive Master of Science Degree and Certificate Programs in Systems Engineering and Management (MS-SEM)
- Joint Executive MS-SEM/Global Executive MBA Program (Dual Degree)

Special admission and fee requirements apply to the following programs and courses.

Executive MBA (EMBA) Program

53 semester credit hours minimum

Ranked internationally, the Executive MBA (EMBA) program prepares experienced professionals for upper management, executive levels, and the C-suite. Based in part on personal executive coaching, the program provides a transformative, leadership, educational, and personal improvement experience that enhances your success and takes your career to a higher level. The 21-month program has only 3-4 class days per month, minimizing disruptions for those with busy schedules. Executive MBA students learn versatile confidence and performance-oriented capabilities in an integrated curriculum. The program includes two trips (the America's and international). The ten-day international trip exposes students to corporate and governmental decision makers and provides behind the scenes with one-on-one conversations with global leaders.
The EMBA program is supported entirely by participant fees and special admissions requirements apply.

Executive MBA degree programs in the Naveen Jindal School of Management require a core of 30 semester credit hours, along with a set of specially designed elective courses equivalent to 23 semester credit hours, for a total of 53 semester credit hours. The MBA core is comprised of the following courses:

Executive MBA Core Curriculum: 30 Semester credit hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 6201</td>
<td>Introduction to Financial Accounting</td>
</tr>
<tr>
<td>ACCT 6202</td>
<td>Introduction to Managerial Accounting</td>
</tr>
<tr>
<td>BPS 6310</td>
<td>Strategic Management</td>
</tr>
<tr>
<td>FIN 6301</td>
<td>Financial Management</td>
</tr>
<tr>
<td>IMS 6204</td>
<td>Global Business</td>
</tr>
<tr>
<td>MIS 6302</td>
<td>Information Technology Strategy and Management</td>
</tr>
<tr>
<td>MECO 6303</td>
<td>Business Economics</td>
</tr>
<tr>
<td>MKT 6301</td>
<td>Marketing Management</td>
</tr>
<tr>
<td>OPRE 6301</td>
<td>Quantitative Introduction to Risk and Uncertainty in Business</td>
</tr>
<tr>
<td>OPRE 6302</td>
<td>Operations Management</td>
</tr>
<tr>
<td>OB 6301</td>
<td>Organizational Behavior</td>
</tr>
</tbody>
</table>

Required Courses: 23 semester credit hours

The following courses, comprising a total of 23 semester credit hours, are currently required in the Executive MBA Program curriculum.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPS 6251</td>
<td>Capstone: Integration Enterprise</td>
</tr>
<tr>
<td>FIN 6252</td>
<td>Creating Value through Mergers, Acquisitions and Private Equity</td>
</tr>
<tr>
<td>IMS 6252</td>
<td>International Business Management</td>
</tr>
<tr>
<td>BPS 6151</td>
<td>Executive Study - Americas</td>
</tr>
<tr>
<td>IMS 6351</td>
<td>Executive International Study Trip - EMBA</td>
</tr>
<tr>
<td>ACCT 6287</td>
<td>Board Membership, Risk Management and Compliance</td>
</tr>
<tr>
<td>OB 6152</td>
<td>Executive Coaching</td>
</tr>
<tr>
<td>BPS 6256</td>
<td>C-Suite Leadership</td>
</tr>
<tr>
<td>OB 6339</td>
<td>Negotiations and Contracts</td>
</tr>
</tbody>
</table>
Global Leadership Executive MBA (GLEMBA) Program

53 semester credit hours minimum

The Global Leadership Executive MBA (GLEMBA) program emphasizes international skills, business operations and transformative leadership. Courses are taught and experiences are provided to working professionals to gain the skills and knowledge needed to assume global leadership responsibilities. This 23 month program includes: online learning, five retreats held on campus, and a ten-day international study tour as part of this Executive MBA program. A set degree plan expands the MBA core curriculum with an international curriculum.

GLEMBA students take additional courses comprising a total of 24 semester credit hours from the following list specific to the Global Leadership Executive MBA Program curriculum.

GLEMBA program is supported entirely by participant fees and special admissions requirements apply. GLEMBA degree programs in the Naveen Jindal School of Management require a core of 29 semester credit hours, along with a set of specially designed elective courses equivalent to 24 semester credit hours, for a total of 53 semester credit hours. The MBA core is comprised of the following courses:

Executive MBA Core Curriculum: 29 Semester credit hours

- **ACCT 6201** Introduction to Financial Accounting
- **ACCT 6202** Introduction to Managerial Accounting
- **BPS 6310** Strategic Management
- **FIN 6301** Financial Management
- **IMS 6204** Global Business
- **MIS 6204** Information Technology and MIS Fundamentals
- **MECO 6303** Business Economics
- **MKT 6301** Marketing Management
- **OPRE 6301** Quantitative Introduction to Risk and Uncertainty in Business
- **OPRE 6302** Operations Management
- **OB 6301** Organizational Behavior
Required Courses: 24 semester credit hours

The following courses, comprising a total of 24 semester credit hours, are currently required in the GLE MBA Program curriculum

- **IMS 6365** Cross-Culture Communication and Management
- **IMS 6151** Global Business Ethics
- **IMS 6212** Global Communications and Negotiations
- **IMS 6354** Global Marketing
- **IMS 6213** Global Politics in Business
- **IMS 6214** Global Mergers and Acquisitions
- **OPRE 6250** Global Supply Chain Management
- **ENTP 6352** International Business Plan
- **ENTP 6351** International Entrepreneurship and Innovation
- **IMS 6351** Executive International Study Trip - EMBA

Certificates and Degree Programs with an emphasis in Project Management

The Executive Education Project Management Program is one of the emphasis areas designed to begin with a set of specialization area courses followed by additional business management core courses and leading to either a Master of Science or a Master of Business Administration degree with the chosen emphasis. Upon completion of the project management core courses, students earn a graduate certificate in project management and are prepared to take the Project Management Institute's Project Management Professional (PMP) certification exam. Following completion of the project management core, students may then continue to complete the requirements for the Master of Science or the Master of Business Administration degree.

Project management faculty members have industrial project management, operations management, management consulting, and teaching experience. The program curriculum is delivered both on campus and online. The on-campus program accommodates work and travel schedules by meeting 8 hours per day on one consecutive Thursday, Friday, and Saturday per month. The online program is designed as weekly modules equivalent to one half-day on campus and includes live interaction.

The project management emphasis certificate and degree programs are supported entirely by participant fees and special admissions requirements apply. Both degree and non-degree seeking students with undergraduate degrees can study towards the Graduate Certificate in Project Management. Potential students are required to complete an application, provide written professional references from 3 people, attend an interview with the program director, and request
all universities attended send an official transcript.

Graduate Certificates in Project Management (21 semester credit hours minimum)

The graduate certificate in Project Management is awarded after completion of the project management core courses described below totaling 21 semester credit hours. These courses emphasize a systems approach to project management and follow the lifecycle of a project, integrating relevant topics from multiple knowledge areas rather than presenting topical courses in isolation. This type of learning environment more closely tracks an actual work experience and facilitates learning and application.

Courses Required for Certificate in Project Management

- OPRE 6271 Project Overview, Strategic and Process Management
- OPRE 6372 Project Initiation
- OPRE 6373 Project Planning
- OPRE 6374 Project Planning and Execution
- OPRE 6375 Project Execution and Closeout
- OPRE 6376 Advanced Project Management and Simulation
- MAS 6101 Legal Considerations in Project Management
- OB 6301 Organizational Behavior

Master of Science in Management and Administrative Sciences with an emphasis in Project Management

39 semester credit hours minimum

A Master of Science degree is awarded after the completion of an additional 18 semester credit hours beyond the Project Management Core requirements.

MS MAS in Project Management supplemental curriculum:

- ACCT 6201 Introduction to Financial Accounting
- ACCT 6202 Introduction to Managerial Accounting
- MECO 6303 Business Economics
- MIS 6204 Information Technology and MIS Fundamentals
- OPRE 6301 Quantitative Introduction to Risk and Uncertainty in Business
- IMS 6370 Seminar in International Operations Management

Executive MBA degree with an emphasis in Project Management

53 semester credit hours minimum

The Executive MBA is earned by waiving the Master of Science degree and completing an additional 14 semester credit hours, for a total of 53 semester credit hours. Students must include the executive core courses listed below to earn the degree.

Additional courses to fulfill requirements for the Executive MBA:

- **BPS 6310** Strategic Management
- **FIN 6301** Financial Management
- **IMS 6204** Global Business
- **MKT 6301** Marketing Management
- **OPRE 6302** Operations Management

Certificates and Degree Programs with an emphasis in Product Lifecycle and Supply Chain Management

The graduate certificate and degree programs in Product Lifecycle and Supply Chain Management focus on educating executives and industry sponsored employees by combining theory and practice. It emphasizes the need to understand "the big picture," the importance of renewed focus on product lifecycle from design to disposal, and supply chain from end to end. Students are trained to be effective problem solvers, and to continuously improve product performance and supply chain efficiency.

The program will employ lectures, case studies, site visits, and the use of quantitative and qualitative methods to meet the learning objectives of the program. Students are required to integrate classroom learning with work projects. The program leverages the world-class faculty in the operations management and industry leaders/practitioners to deliver the program. Following completion of the product lifecycle and supply chain management core, students may then continue to complete the requirements for the Master of Science or the Master of Business Administration degree.

The product lifecycle and supply chain emphasis certificate and degree programs are supported entirely by participant fees and special admissions requirements apply. Both degree and non-degree seeking students with undergraduate degrees can study towards the Graduate Certificate in Project
Management. Potential students are required to complete an application, provide written professional references from 3 people, attend an interview with the program director, and request all universities attended send an official transcript.

Graduate Certificates in Product Lifecycle and Supply Chain Management

15 semester credit hours minimum

The graduate certificate in Product Lifecycle and Supply Chain Management is awarded after completion of the product lifecycle and supply chain management core courses described below, totaling 15 semester credit hours.

Courses Required for Graduate Certificate in Product Lifecycle and Supply Chain Management: 15 semester credit hours

- **OPRE 6366** Global Supply Chain Management
- **OPRE 6370** Global Logistics and Transportation
- **OPRE 6371** Purchasing, Sourcing and Contract Management
- **OPRE 6379** Product Lifecycle Management
- **OPRE 6364** Quality Control (Lean 6 Sigma)

Master of Science in Supply Chain Management

36 semester credit hours minimum

A Master of Science in supply chain management degree is awarded after the completion of an additional 22 semester credit hours beyond the product lifecycle and supply chain management core requirements. The MS in Supply Chain Management requires the following coursework:

MS in Supply Chain Management supplemental curriculum: 22 semester credit hours

- **ACCT 6201** Introduction to Financial Accounting
- **ACCT 6202** Introduction to Managerial Accounting
- **FIN 6301** Financial Management
- **OB 6301** Organizational Behavior
- **OPRE 6301** Quantitative Introduction to Risk and Uncertainty in Business
- **OPRE 6302** Operations Management
Executive MBA degree with an emphasis in Product Lifecycle and Supply Chain Management

53 semester credit hours minimum

The Executive MBA is earned by waiving the Master of Science degree and completing an additional 16 semester credit hours, for a total of 53 semester credit hours. Students must include the executive core courses listed below to earn the degree.

Additional courses to fulfill requirements for the Executive MBA: 16 semester credit hours

- **BPS 6310** Strategic Management
- **IMS 6204** Global Business
- **MECO 6303** Business Economics
- **MIS 6204** Information Technology and MIS Fundamentals
- **MKT 6301** Marketing Management
- **OPRE 6342** Special Topics in Product Lifecycle and Supply Chain Management

Master of Science in Healthcare Management for Physicians

36 semester credit hours minimum

The Master of Science in Healthcare Management is a specialized business degree available to licensed MDs and DOs. The 36 semester credit hour healthcare management curriculum consists of nine 4-day residential classes OR any eight classes plus a self-directed field study. A different class is offered every two months and classes may be started at any time and taken in any order. Classes are eligible for up to 36 semester credit hours each of Category 1 CME credit toward the AMA Physician's Recognition Award. Successful completion of any five classes is recognized by the award of a Graduate Certificate in Healthcare Management.

The curriculum is centered on real-life healthcare problems and cases. Classes are jointly taught by senior business and medical school faculty with outstanding academic credentials and real-world healthcare experience. Physicians and faculty work collaboratively in small teams to examine facts, evaluate alternatives, and develop workable solutions.
The healthcare management curriculum consists of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>HMGT 6401</td>
<td>Negotiation and Conflict Management in Healthcare</td>
</tr>
<tr>
<td>HMGT 6402</td>
<td>Financial Management of Healthcare Organizations</td>
</tr>
<tr>
<td>HMGT 6403</td>
<td>Medical Cost and Performance Management</td>
</tr>
<tr>
<td>HMGT 6404</td>
<td>Quality and Performance Improvement in Healthcare</td>
</tr>
<tr>
<td>HMGT 6405</td>
<td>Healthcare Information Management and Technology</td>
</tr>
<tr>
<td>HMGT 6406</td>
<td>Strategic Management of Healthcare Organizations</td>
</tr>
<tr>
<td>HMGT 6407</td>
<td>Healthcare Policy and Regulation</td>
</tr>
<tr>
<td>HMGT 6408</td>
<td>Motivational Leadership in Healthcare Organizations</td>
</tr>
<tr>
<td>HMGT 6410</td>
<td>Coaching as a Leadership Style</td>
</tr>
<tr>
<td>HMGT 6V10</td>
<td>Special Topics in Healthcare Management</td>
</tr>
<tr>
<td>HMGT 6V15</td>
<td>Self-Directed Field Study</td>
</tr>
</tbody>
</table>

**Healthcare Management Executive MBA for Physicians**

*53 semester credit hours minimum*

The Healthcare Management Executive MBA is a general business degree preferred by physicians who wish to transition into an executive management role. It requires the completion of the healthcare management curriculum plus an additional 17 semester credit hours consisting of six non-healthcare related general business classes. These classes provide an integrated overview of functional areas of management as well as analytical tools for effective decision making. The general business classes may be taken online for maximum flexibility and convenience. The online classes require no on-campus visits.

The six general business courses required are:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 6301</td>
<td>Financial Management</td>
</tr>
<tr>
<td>IMS 6204</td>
<td>Global Business</td>
</tr>
<tr>
<td>MECO 6303</td>
<td>Business Economics</td>
</tr>
<tr>
<td>MKT 6301</td>
<td>Marketing Management</td>
</tr>
<tr>
<td>OPRE 6301</td>
<td>Quantitative Introduction to Risk and Uncertainty in Business</td>
</tr>
</tbody>
</table>
The Healthcare Management Executive MS and MBA degrees are supported entirely by participant fees and special admissions requirements apply. Further information may be obtained from the program website: [http://amme.utdallas.edu](http://amme.utdallas.edu).

**Executive Education Program in Organizational Behavior and Coaching**

As is the case with both Project Management and Healthcare Management for Physicians, students in the executive program in Organizational Behavior and Coaching can complete multiple levels of recognition in the program, including:

1. A Graduate Certificate in Executive and Professional Coaching after 15 semester credit hours.
2. A Master of Science degree in Management and Administrative Sciences after the completion of an additional 21 semester credit hours beyond certificate requirements.

This concentration focuses on organizational behavior and coaching theory, methodology, and techniques. Students learn how to become instruments of individual and organizational change, lead and manage organizational transitions, work effectively when there is resistance to change, and develop skills as an internal and external practitioner. Students deepen their knowledge of individual and organizational behavior through the integration of theory and practice. They leave the program with a set of tools for personal, group, organization, and community transformation, qualified to apply for professional accreditation by the International Coach Federation.

Classes are conducted utilizing the very best in interactive distance learning methodologies, making the program convenient, efficient, and geographically independent for busy professionals. Students are taught by outstanding master coaches with real-world coaching experience within business settings and Jindal School of Management faculty.

**Graduate Certificate in Executive and Professional Coaching**

*15 semester credit hours minimum*


**Executive and Professional Coaching courses**

Master of Science in Management and Administrative Sciences with a Concentration in Organizational Behavior and Coaching

36 semester credit hours minimum

After completion of the certificate requirements, students can go on to complete a Master of Science in Management and Administrative Sciences by completing another 21 semester credit hours of graduate level courses, including the courses in the MS MAS core curriculum.

MS MAS Core Curriculum

The MS MAS core is comprised of the following courses:

- **ACCT 6201** Introduction to Financial Accounting
- **MECO 6303** Business Economics
- **MIS 6204** Information Technology and MIS Fundamentals
- **OPRE 6301** Quantitative Introduction to Risk and Uncertainty in Business
- **OB 6301** Organizational Behavior

Organizational Behavior and Coaching students take the executive MS MAS core set, and then draw the remainder of their courses from the following list specific to the Organizational Behavior component of the curriculum.

Organizational Behavior Electives

- **OB 6331** Power and Politics in Organizations
- **OB 6332** Negotiation and Dispute Resolution
- **OB 6337** Motivational Leadership in Organizations (On Campus Only)
- **OB 6338** Coaching as a Leadership Style (On Campus Only)
- **OB 6355** Capstone in Organizational Behavior and Coaching

Executive Master of Science Degree and Certificate Programs in Systems Engineering and
Management (MS-SEM)

36 semester credit hours minimum

The certificates and degree programs are jointly offered by the Naveen Jindal School of Management and the Erik Jonsson School of Engineering and Computer Science.

Admissions Requirements

A student lacking undergraduate prerequisites for graduate courses must complete prerequisites or receive approval from the graduate advisor and the course instructor. Specific admission requirements for the MS-SEM follow.

A student entering the MS-SEM program should meet the following guidelines:

• A minimum of a BS in engineering, mathematics, physics, chemistry, economics or finance (specifically, programs that provide adequate fundamental skills in mathematics).
• A minimum of three years of work experience.
• Submission of three letters of recommendation from individuals who are able to judge the candidate's probability of success in pursuing a program of study leading to the MS-SEM degree.
• Submission of an essay outlining the candidate's background, education, and professional goals.

Degree Requirements

The MS-SEM program is designed to be flexible to accommodate different student backgrounds, allowing students to learn in areas in which they are deficient, while still guaranteeing core competency in systems engineering and systems management. This program has both a thesis and a non-thesis option. All part-time MS-SEM students will be assigned initially to the non-thesis option. Those wishing to elect the thesis option may do so by obtaining the approval of a faculty thesis supervisor.

The MS-SEM degree requires a total of 36 semester credit hours consisting of 12 courses in the non-thesis option or 10 courses plus six semester credit hours of thesis credit for the thesis option. All students must have an academic advisor and an approved degree plan. Courses taken without advisor approval will not count toward the 36 semester credit hour requirement. Successful completion of the approved course of studies leads to the MS-SEM degree. Please also note that the university's general degree requirements are discussed in the graduate catalog.

Non-Thesis Option

Completion of a minimum of 36 semester credit hours of graduate-level lecture courses including the required core courses. With advisor approval, these may include some 5000 level courses.
Students must earn a grade of B- or better in each of four core courses (see below).

**Thesis Option**

An alternative to the 36 semester credit hour requirement for the MS-SEM degree is the completion of a minimum of 30 semester credit hours of graduate-level lecture courses, with a grade of B- or better in each of the required core courses, six semester credit hours of a combination of master’s research (SYSM 6V70) and thesis (SYSM 6V90), submitted to the graduate school, and a formal public defense of the thesis.

Students enrolled in the thesis option should meet with individual faculty members to discuss research opportunities and to choose a research advisor during the first or second semester that the student is enrolled. After the second semester of study, course selection should be made in consultation with the research advisor. Part-time students are encouraged to enroll in only one course during their first semester and in no more than two courses during any semester they are also working full-time.

Research and thesis semester credit hours cannot be counted in an MS-SEM degree plan unless a thesis is written and successfully defended. A supervising committee, which must be chosen in consultation with the student’s thesis advisor prior to enrolling for thesis credit, administers the defense. With advisor approval, the lecture courses may include some 5000 level courses. Full-time UT Dallas students who receive financial assistance are required to enroll in nine semester credit hours each semester.

**Required Courses**

Students are required to take four courses (a total of 12 semester credit hours) from a set of eight courses in the list below. Two of the courses must be from the Engineering Core section and two from the Management Core section. The four required courses contribute a total of 12 semester credit hours toward the MS degree.

**Prescribed Elective Courses**

These consist of an additional four courses (a total of 12 semester credit hours) from the set of eight core courses listed and/or the set of courses listed below. Two of these courses must be chosen from the two Engineering sections (core and elective), and two from the two Management sections. Because a program objective is to maintain a high degree of flexibility, students are encouraged to work with a SEM program advisor to discuss possible (limited) exceptions and substitutions for the prescribed courses.

**SEM Core Curriculum**

**Engineering 1 (Core)**

- **SYSM 6301** Systems Engineering, Architecture and Design
- **SYSM 6302** Dynamics of Complex Networks and Systems
**SYSM 6303** Quantitative Introduction to Risk and Uncertainty in Business  
**SYSM 6305** Optimization Theory and Practice

**Management 1 (Core)**

**SYSM 6311** Systems Project Management in Engineering and Operations  
**SYSM 6312** Systems Financial Management  
**SYSM 6318** Marketing Management  
**SYSM 6333** Systems Organizational Behavior

**Engineering 2 (Prescribed Elective)**

**SYSM 6304** Risk and Decision Analysis  
**SYSM 6306** Engineering Systems: Modeling and Simulation  
**SYSM 6307** Linear Systems  
**SYSM 6308** Software Maintenance, Evolution, and Re-Engineering  
**SYSM 6309** Advanced Requirements Engineering  
**SYSM 6310** Software Testing, Validation and Verification  
**SYSM 6321** Financial Engineering I  
**SYSM 7321** Financial Engineering II

**Management 2 (Prescribed Elective)**

**SYSM 6313** Systems Negotiation and Dispute Resolution  
**SYSM 6314** Manufacturing and Service Systems Planning and Analysis  
**SYSM 6315** The Entrepreneurial Experience  
**SYSM 6316** Managing Innovation within the Corporation  
**SYSM 6317** The Management of High Tech Products  
**SYSM 6319** Business Economics  
**SYSM 6320** Strategic Leadership  
**SYSM 6332** Technology and New Product Development

**Free Elective Courses**

For the free elective, students will be able to take, with prior approval from the program director, any four additional and distinct courses of the remaining 12 core courses that have not already been taken as required courses or prescribed elective courses. Students will also be able to take additional
free elective courses that are already being offered in management or in engineering that will allow "concentration" or "specialization" in specific industry sectors, including the following:

- Healthcare Services
- Energy, Resources and Infrastructure
- Complex Brain, Biological and Behavioral
- Aerospace, Defense and Space
- Telecom and IT Networks
- Information Assurance and Cybersecurity
- Arts and Technology and Web Media
- Transportation
- Macroeconomics and Finance
- Global Supply Chain Management
- Enterprise Systems
- Entrepreneurship and Innovation

Students must take a minimum of five core and prescribed elective courses before taking any free elective courses.

Certificates

The program offers two certificates: a Certificate in Systems Engineering and a Certificate in Systems Management. Each certificate requires 12 semester credit hours and is offered in an Executive Education, four-semester credit hour module format. See Course Descriptions for information on course content.

Certificate in Systems Engineering

Students are required to complete two from the set of engineering courses listed below, and any two additional from the remainder of the 20 SYSM-prefix listed below in either group, engineering or management.

Systems Engineering Courses

- **SYSM 6301** Systems Engineering, Architecture and Design
- **SYSM 6302** Dynamics of Complex Networks and Systems
- **SYSM 6303** Quantitative Introduction to Risk and Uncertainty in Business
- **SYSM 6304** Risk and Decision Analysis
- **SYSM 6305** Optimization Theory and Practice
- **SYSM 6306** Engineering Systems: Modeling and Simulation
SYSM 6307 Linear Systems
SYSM 6308 Software Maintenance, Evolution, and Re-Engineering
SYSM 6309 Advanced Requirements Engineering
SYSM 6310 Software Testing, Validation and Verification
SYSM 6321 Financial Engineering I
SYSM 7321 Financial Engineering II

Certificate in Systems Management

Students are required to complete two from the set of management courses listed below, and any two additional from the remainder of the 20 SYSM-prefix listed in group, engineering or management.

Systems Management Courses

SYSM 6311 Systems Project Management
SYSM 6312 Systems Financial Management
SYSM 6313 Systems Negotiation and Dispute Resolution
SYSM 6314 Manufacturing and Service Systems Planning and Analysis
SYSM 6315 The Entrepreneurial Experience
SYSM 6316 Managing Innovation Within the Corporation
SYSM 6317 The Management of High Tech Products
SYSM 6318 Marketing Management
SYSM 6319 Business Economics
SYSM 6320 Strategic Leadership
SYSM 6332 Technology and New Product Development
SYSM 6333 Systems Organizational Behavior

Engineering Courses

SYSM 6301 Systems Engineering, Architecture and Design
SYSM 6302 Dynamics of Complex Networks and Systems
SYSM 6303 Quantitative Introduction to Risk and Uncertainty in Business
SYSM 6304 Risk and Decision Analysis
SYSM 6305 Optimization Theory and Practice
**SYSM 6306** Engineering Systems: Modeling and Simulation

**SYSM 6307** Linear Systems

**SYSM 6308** Software Maintenance, Evolution, and Re-Engineering

**SYSM 6309** Advanced Requirements Engineering

**SYSM 6310** Software Testing, Validation and Verification

**SYSM 6321** Financial Engineering I

**SYSM 7321** Financial Engineering II

**SYSM 6V70** Research In Systems Engineering and Management

**SYSM 6V80** Special Topics in Systems Engineering and Management

**SYSM 6V90** Thesis

**Management Courses**

**SYSM 6311** Systems Project Management in Engineering and Operations

**SYSM 6312** Systems Financial Management

**SYSM 6313** Systems Negotiation and Dispute Resolution

**SYSM 6314** Manufacturing and Service Systems Planning and Analysis

**SYSM 6315** The Entrepreneurial Experience

**SYSM 6316** Managing Innovation within the Corporation

**SYSM 6317** The Management of High Tech Products

**SYSM 6318** Marketing Management

**SYSM 6319** Business Economics

**SYSM 6320** Strategic Leadership

**SYSM 6332** Technology and New Product Development

**SYSM 6333** Systems Organizational Behavior

**Dual Executive MS-SEM/Global Executive MBA Degree**

*63-65 semester credit hours minimum*

The Naveen Jindal School of Management and the Erik Jonsson School of Engineering and Computer Science offer a Dual Executive MS-SEM and Global Executive MBA (GLEMBA) program because today's experienced graduate students seasoned by eight or more years as workforce professionals often
seek a more comprehensive education in technical skills as well as broad-based business-leadership capabilities for the global economy. The dual-degree option provides both deep knowledge in SEM, as well as a broad knowledge of all areas of management with an enhanced worldwide perspective of business leadership for increasing productivity, efficiency and profitability.

The dual-degree program allows students to earn a combination of an MS-SEM degree and a Global Executive MBA degree together. Separately, each degree would require 36 semester credit hours for the MS plus 53 semester credit hours for the MBA, or 89 semester credit hours total. However, in the dual program students can earn both degrees with a smaller total of 63 to 65 semester credit hours. The two degrees are awarded at the same time, upon completion of the requisite number of semester credit hours.

Those students who start out in the Executive MS-SEM Program and wish to join the dual program will (1) first complete 36 semester credit hours in the Executive MS-SEM program, and (2) will then transition to the 2nd year of the GLEMBA Program and complete the remaining 27 semester credit hours, by taking the following GLEMBA courses, for a total of 63 semester credit hours towards getting their dual degree:

- **BPS 6310** Strategic Management
- **IMS 6365** Cross-Culture Communication and Management
- **IMS 6151** Global Business Ethics
- **IMS 6355** Global Communications and Negotiations
- **IMS 6214** Global Mergers and Acquisitions
- **IMS 6213** Global Politics in Business
- **OPRE 6250** Global Supply Chain Management
- **ENTP 6352** International Business Plan
- **ENTP 6351** International Entrepreneurship and Innovation
- **IMS 6351** Executive International Study Trip - EMBA

Those students who start out in the GLEMBA Program and wish to join the dual program will:

1. First finish 29 semester credit hours by completing the 1st year of GLEMBA, and
2. Then join the Executive SEM Program. Five of the courses they will have taken (**OPRE 6301**, **FIN 6301**, **OB 6301**, **MKT 6301** and **MECO 6303**) in the 1st year of GLEMBA, overlap with five core required or prescribed elective courses in Executive MS-SEM - one engineering (**SYSM 6303**) and four management (**SYSM 6312**, **SYSM 6333**, **SYSM 6318**, and **SYSM 6319**). They will thus be required to take 4 more core or prescribed elective courses in Executive MS-SEM for a total of 12 semester credit hours, at least 3 of which will need to be engineering courses, and at least one of those will be from the core engineering courses.
3. They will then rejoin the 2nd year of the GLEMBA Program and complete the remaining 24 semester credit hours. They will thus have completed a total of 65 semester credit hours towards getting the dual degree.
1. This course replaces MIS 6204, which is a two semester credit hour course. The Executive MBA MIS 6302 is a three semester credit hour course.

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