

# Technology Management – List of Concentrations & Courses

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## 1. Accounting

Required

- ACCT 502 Financial Reporting and Analysis

Choose any three from the following:

- ACCT 500 Managerial Accounting
- ACCT 501X Intermediate Accounting
- ACCT 510 International Accounting
- ACCT 520 Auditing
- ACCT 530 Fundamentals of Personal Taxation
- ACCT 531X Fundamentals of Business Entity Taxation
- ACCT 511 Advanced Financial Accounting
- Any other course that is approved by the MBA program director

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## 2. Bio-Tech Management

Required

- TCMG 535X/MGMT 541X Foundations of Bio Tech Sciences & Management

Choose any two from the following:

- EE 446 Biomedical and Biometric Signal Processing
- EE 510 Medical Electronics and Electrical Safety
- EE 443 Applied Digital Signal Processing
- EE 481 Analog Electronics lab
- MEEG 440 Ergonomics
- Any other course that is approved by the Department of Electrical or Mechanical Engineering or Technology Management or MBA program director

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## 3. CAD/CAM

Choose any three from the following:

- ME 421 Computer Aided Engineering/Design
- ME 422 Advanced CAE/CAD Projects
- ME 423 CAM & NC Machining
- Any other course that is approved by the Department of Mechanical Engineering

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## 4. China / India Trade

Required

- MGMT 550X Foundation of Doing Business in China
- or -
- MGMT 551X Foundation of Doing Business in India

Choose any three from the following:

- FIN 500 International Trade and Finance

- FIN 525 International Financial Management
- MKTG 550 Global Market Management
- TCMG 508/MKMT 551 Product Management, Innovation and Commercialization
- Any other course that is approved by the MBA program director or Technology Management department

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## 5. Computer Communications and Networking

Required

- CpE 471 Data and Computer Communication
- CpE 472 Computer Networks

Electives: choose one from the following

- CpE 473 Local Area Networks
- CS 561/CpE 561 Network Security
- Any other course that is approved by the Department of Computer Science & Engineering
- Any other course that is approved by the Computer Science department

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## 6. Corporate, Government and Information Security & Continuity Management

Required:

- TCMG 510X / MGMT 536X Foundations of Corporate, Government and Information Security & Continuity Management

Choose any two from the following:

- TCMG 533X/MGMT 533X Information Technology Strategy and Governance
- IT 550 Information Technology Security
- Any other course that is approved by the Mechanical Engineering or Technology Management departments or MBA program director

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## 7. E-Commerce

Required (MBA only)

- IT 530 Internet Applications and Opportunities

Choose any three from the following:

- CS 555 Web-Based Application Development
- TCMG 533X/MGMT 533X Information Technology Strategy and Governance
- MKTG 530X e-Marketing
- IT 530 Internet Applications and Opportunities (non-MBA)
- IT 550 Information Technology Security
- CS 410 Java Programming
- CS 411 Advanced Object-Oriented Program w/ Java

- CS 440 Windows Programming
- CS 545 Component Based Software Design
- Any other course that is approved by the department of Computer Science and Engineering

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## 8. Entrepreneurship

Required

- MGMT 531 Small Business and Entrepreneurship

Choose any three from the following:

- MEEG 490 Intellectual Property and Technology / MGMT 580 Business and Society: Intellectual Property and Anti-Trust Law
- TCMG 508/MKMT 551 Product Management, Innovation and Commercialization
- TCMG 484/MGMT 535X Finance and Accounting for Non-Financial Managers
- TCMG 400 Marketing, Entrepreneurship and Innovation Issues and Practices for Management (core course for Technology Management degree)
- Any other course that is approved by the Mechanical Engineering or Technology Management departments or MBA program director

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## 9. Environmental and Energy Management

Required

- TCMG560X/MGMT 560X Foundations of Environmental and Energy Management

Choose any two from the following:

- TCMG 561X/MGMT 561X Economic, Regulatory, Political, Cultural and Social Issues in Environmental and Energy Management
- MEEG xxx : Waste and Hazard Materials and Treatment Management
- Any other course that is approved by the Mechanical Engineering or Technology Management departments or MBA program director

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## 10. Finance

Required

- FIN 500 International Trade and Finance

Choose any three from the following:

- FIN 505 Ad. Financial Management & Policy
- FIN 521 Fin. Management of Fin. Institutions
- FIN 541 Investment Analysis
- FIN 542 Financial Futures, Options and Swaps

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- FIN 525 International Financial Management
- FIN 540X Financial Analysis and Modeling Methodology
- FIN 543 Technical Analysis & Trading
- Any other course that is approved by the MBA program director

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## 11. Global Business

### Required

- MGMT 598 Advanced Intellectual Property Management

### Elective 1: Choose any one from the following

- FIN 500 International Trade and Finance
- FIN 525 International Financial Management
- FIN 543 Technical Analysis and Trading

### Elective 2: Choose any one from the following

- TCMG505/MGMT 532X Global Program and Project Management
- TCMG 533X/MGMT 533X Information Technology Strategy and Governance
- TCMG534X/MGMT 534X Strategic Sourcing and Vendor Management
- TCMG 523/MGMT 523 Leadership, Teams and Managing Change

### Elective 3: Choose any one from the following

- MKTG 550 Global Market Management
- MKTG 543 Problems in Market Research
- MKTG 530X e-Marketing
- TCMG 508/MKTG 551 Product Management, Innovation and Commercialization
- Any other course that is approved by Technology Management or MBA program director

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## 12. Global Marketing

### Required

- MKTG 543 Problems in Market Research

### Choose any three from the following:

- MKTG 540 Buyer Analysis
- MKTG 550 Global Market Management
- MKTG 560 Mass Merchandising and Retailing
- MKTG 530X e-Marketing
- TCMG 508/MKTG 551 Product Management, Innovation and Commercialization
- MKTG 552X Services Marketing
- Any other course that is approved by the Mechanical Engineering or Technology Management or MBA program director

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## 13. Global Program and Project Management

### Required:

- TCMG 505/GSB 537X Global Program and Project Management

### Choose any two from the following:

- TCMG 508/ MKTG 551 Product Management, Innovation and Commercialization
- TCMG 533X/MGMT 533X Information Technology Strategy and Governance
- Any other course approved by Technology Management or MBA program director

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## 14. Health Care Management & Administration

### Required:

- MGMT 570X Foundations of Health Care Management and Administration

### Choose any two from the following:

- MGMT 511 Human Resource Management
- IT 521X Healthcare Management and Administrative Technologies & Systems
- TCMG 523/MGMT 523 Leadership, Teams and Managing Change
- TCMG 484/MGMT 535X Finance and Accounting for Non-Financial Managers
- Any other course that is approved by the Mechanical Engineering or Technology Management departments or MBA program director

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## 15. Human Resources Management

### Required:

- MGMT 511 Human Resource Management

### Choose any two from the following:

- MGMT 512 Organizational Development
- MGMT 530 Foundations of Management and Organization
- COUN 525 Skills for Human Resource Professional
- Any other course that is approved by the MBA program director and the School of Education and Human Resources

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## 16. Information Technology Management

### Required

- IT 520 Information Systems Requirements, Analysis, Design and Deployment

### Choose any three from the following:

- TCMG 533X/MGMT 533X Information Technology Strategy and Governance
- IT 550 Information Technology Security
- IT 551 Enterprise Architecture and Knowledge Management

- IT 552 IT Infrastructure and Service Management and Delivery
- IT 553 Enterprise Information Systems
- Any other course that is approved by the MBA program director

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## 17. Intellectual Property Management

### Required:

- MEEG 490 / MGMT 580 Business and Society: Intellectual Property and Anti-Trust Law

### Choose any two from the following:

- TCMG 512 / MGMT 598 Advanced Intellectual Property Management
- TCMG508 / MKTG 551 Product Management, Innovation and Commercialization
- TCMG 400 Marketing, Entrepreneurship and Innovation for Management (core course for TM)
- Any other course that is approved by the Mechanical Engineering Department or Technology Management department

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## 18. Management and Operations

### Required

- MGMT 530 Foundations of Management and Organizations

### Choose any three from the following:

- MGMT 550 Managerial Economics
- MGMT 540 Advanced Business Process and Operations Management
- MGMT 511 Human Resource Management
- MGMT 512 Organization Development
- MGMT 522 Conflict and Negotiation
- TCMG 505/MGMT 532X Global Program and Project Management
- TCMG 534X/MGMT 534X Strategic Sourcing and Vendor Management
- TCMG 523/MGMT 523 Leadership, Teams and Managing Change
- Any other course that is approved by the MBA program director

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## 19. Manufacturing Management

### Choose any three from the following:

- MEEG 572 Manufacturing Technology and Techniques
- MEEG 573 Supply Chain Management
- MEEG 574 Principle of Logistics and Material Management
- MEEG 575 Manufacturing Strategy and Lean Manufacturing
- TCMG 534X/MGMT 534X Strategic Sourcing and Vendor Management

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- Any other course that is approved by the Department of Mechanical Engineering

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## 20. Modern Data Base Systems

### Required

- CS 450 Data Base Design
- CS 551 Advanced Data Base

### Electives: Choose one from following

- CS 410 Java Programming
- CS 411 Advanced Object-Oriented Program with Java
- CS 440 Windows Programming
- CS 555 Web-Based Application Development
- Any other course that is approved by the Department of Computer Science & Engineering

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## 21. New Product Development and Management

### Required

- TCMG 508/MKTG 551 Product Management, Innovation and Commercialization

### Choose 2 from following:

- MEEG 490 Intellectual Property and Technology / MGMT 580 Business and Society: Intellectual Property and Anti-Trust Law
- MKTG 550 Global Market Management
- TCMG 534X/MGMT 534X Strategic Sourcing and Vendor Management
- MKTG 540 Buyer Analysis

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## 22. Robotics and Automation

### Required

- CpE 460 Introduction to Robotics
- CpE 570 Advanced Robotics

### Electives: Choose one from following

- CS 504 Artificial Intelligence
- CS 580 Introduction to Neural Networks
- CpE 540 Image Processing
- CpE 584 Machine Perception
- CpE 585 Computer Vision
- EE 460 Controls
- Any other course that is approved by the Department of Computer Science & Engineering

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## 23. Service Management and Engineering

### Required:

- TCMG 571X / MGMT 571X Foundations of Service Management and Engineering

### Choose any two from the following:

- MKMT 552X Service Marketing
- TCMG 533X/MGMT 533X IT Strategy and Governance
- IT 552 IT Infrastructure and Service Management and Delivery
- MKTG 552X Services Marketing
- Any other course approved by Technology Management or MBA program director

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## 24. Software Engineering

### Required

- CpE 489 Software Engineering

### Electives: Choose two from following

- CS 440 Windows Programming
- CS 545 Component Based Software Design
- CS 555 Web-based Application Development
- Any other course that is approved by the Department of Computer Science & Engineering

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## 25. Strategic Sourcing and Vendor Management

### Required:

- TCMG 534X/MGMT 534X Strategic Sourcing and Vendor Management.

### Choose any two from the following:

- MEEG 573 Supply Chain Management
- FIN 500 International Trade and Finance
- TCMG 505/MGMT 532X Global Program and Project Management
- MGMT 550X Foundation of Doing Business in China
- MGMT 551X Foundation of Doing Business in India
- Any other course approved by Technology Management or MBA program director

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## 26. Supply Chain Management

### Required:

- MEEG 573 Supply Chain Management

### Choose from any two courses:

- MEEG 574 Principle of Logistics and Material Management
- FIN 500 International Trade and Finance
- MKTG 540 Buyer Analysis
- TCMG 534X/MGMT 534X Strategic Sourcing and Vendor Management
- IT 553 Enterprise Information Systems

- Any other course that is approved by the Department of Mechanical Engineering, Technology Management or MBA program director

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## 27. Wireless and Mobile Communications

### Choose any three from the following:

- CpE 481 Mobile Communications
- CpE 471 Data and Computer Communications
- CpE 5XX Advanced Mobile/Wireless Communications
- Any other course that is approved by the Department of Computer Science & Engineering or Electrical Engineering