Erik Jonsson School of Engineering & Computer Science

Combination of Engineering and Management Graduate Degrees

Today's graduates aspiring to assume managerial and leadership positions in high tech firms and research institutions must be knowledgeable in both the engineering and managerial dimensions of the position. In recognition of this growing reality, UT Dallas offers a blend of courses allowing students to earn a combination of master's level degrees in both engineering and management. Specifically, graduates of this program will qualify to earn a MSEE degree in combination with a MBA or a degree in Management.

Faculty

The combination of master's level degrees in both engineering and management are jointly administered by the faculty members in the Department of Electrical Engineering in the Erik Jonsson School of Engineering and Computer Science and the Naveen Jindal School of Management.

Objectives

The program of studies leading to the award of a MSEE degree by the Erik Jonsson School of Engineering and Computer Science in combination with one of the following master's degrees, MBA or MS, offered by the Naveen Jindal School of Management, provides intensive preparation for engineers who seek knowledge and skills necessary to manage a technology firm. This program emphasizes both Electrical Engineering and Engineering Management, preparing students for a career in management and for holding leadership positions in engineering companies and research institutions. The program of studies is ideal for students interested in managing new technologies, from conceptualization and development to introduction and production.

Admission and Degree Requirements

The University's general admission requirements are discussed on the Graduate Admission page. Student pursuing the MSEE degree in combination with a master's degree in management must meet the admission requirements for both graduate programs. The University's general degree requirements are discussed on the Graduate Policies and Procedures page. For this program of studies, the Jindal School of Management will accept a competitive GRE performance in lieu of the GMAT.

Combination of MSEE and MBA graduate degrees

68 semester credit hours minimum
ENCS Faculty


**Professors Emeritus:** Louis R. Hunt, William J. Pervin, Don Shaw

**Research Professors:** Walter Duncan, Andrew Marshall, Hisashi (Sam) Shichijo

**Associate Professors:** Gerald O. Burnham, Yun Chiu, Rashaunda Henderson, Wenchuang (Walter) Hu, Roozbeh Jafari, Hoi Lee, Dongsheng (Brian) Ma, Issa M. S. Panahi, Siavash Pourkamali

**Assistant Professors:** Bilal Akin, Taylor Barton, Carlos A. Busso-Recabarren, Joseph Callenes-Sloan, Nicholas Gans, Myoungsoo Jung, Chadwin D. Young

**Research Assistant Professors:** Hynek Boril, Abhijeet Sangwan

**Senior Lecturers:** Paul Deignan, James Florence, Jung Lee, Randall E. Lehmann, P. K. Rajasekaran, Ricardo E. Saad, William (Bill) Swartz, Marco Tacca

**UT Dallas Affiliated Faculty:** Larry P. Ammann, Leonidas Bleris, Yves J. Chabal, Bruce E. Gnade, Matthew J. Goeckner, Robert D. Gregg, Jiyoung Kim, Moon J. Kim, David J. Lary, Yang Liu, Robert L. Rennaker II, Mario A. Rotea, Mathukumalli Vidyasagar, Robert M. Wallace, Steve Yurkovich

JSOM Faculty


**Professor Emeritus:** Dale Osborne

**Clinical Professors:** John Barden, Britt Berrett, Abhijit Biswas, Pamela Foster Brady, Larry Chasteen, David Cordell, Tefvik Dalgic, Michael Deegan, Howard Dover, Greg Durham, Forney Fleming III, Randall S. Guttery, Charles Hazzard, Robert Hicks, Marilyn Kaplan, Peter Lewin, John F. McCracken, Dennis McCuistion, Radha Mookerjee, Joseph Picken, Divakar Rajamani, Daniel Rajaratnam, Kannan Ramanathan, David Ritchey, Arthur Selender, Rajiv Shah, Kelly Slaughter, Kenneth Smith, Habte Woldu, Fang Wu, Laurie L. Ziegler

**Associate Professors:** Nina Baranchuk, Norris Bruce, Huseyin Cavusoglu, Jianqing Chen, Zhonglan Dai, Xianjun Geng, Umit G. Gurun, J. Richard Harrison, Surya N. Janakiraman, Robert L. Kieschnick Jr., Nanda Kumar, Seung-Hyun Lee, Lívia Markóczy, Syam Menon, Toyah Miller, Alp Muharremoglu, Ramachandran
Overview

The combination of MSEE and MBA degrees can be earned by completing a minimum of 68 graduate semester credit hours beyond prerequisite courses. This includes a minimum of 24 semester credit hours of approved electrical engineering (EE) courses in combination with a minimum of 44 semester credit hours of approved management courses.

Students enrolled in this combination of MSEE and MBA degree programs are permitted to:

- utilize a maximum of 9 semester credit hours from the approved list of management courses together with 12 semester credit hours of approved elective EE courses to satisfy the required 21 semester credit hours of elective courses listed in the MSEE degree requirements, and

- utilize a maximum of 9 semester credit hours from the approved list of EE courses together with 15 semester credit hours of approved elective MBA courses to satisfy the 24 semester credit hours of elective courses listed in the MBA degree requirements.

Students are required to meet all other core and elective requirements for the MSEE and MBA degrees to obtain the combination of the MSEE with MBA graduate degrees.

Combination of MSEE with MS graduate degrees

51 minimum semester credit hours

ENCS Faculty

Professors: Naofal Al-Dhahir, Poras T. Balsara, Dinesh Bhatia, Andrew J. Blanchard, Ann (Catrina)

**Professors Emeritus:** Louis R. Hunt, William J. Pervin, Don Shaw

**Research Professors:** Walter Duncan, Andrew Marshall, Hisashi (Sam) Shichijo

**Associate Professors:** Gerald O. Burnham, Yun Chiu, Rashaunda Henderson, Wenchuang (Walter) Hu, Rozzbeh Jafari, Hoi Lee, Dongsheng (Brian) Ma, Issa M. S. Panahi, Siavash Pourkamali

**Assistant Professors:** Bilal Akin, Taylor Barton, Carlos A. Busso-Recabarren, Joseph Callenes-Sloan, Nicholas Gans, Myoungsoo Jung, Chadwin D. Young

**Research Assistant Professors:** Hynek Boril, Abhijeet Sangwan

**Senior Lecturers:** Paul Deignan, James Florence, Jung Lee, Randall E. Lehmann, P. K. Rajasekaran, Ricardo E. Saad, William (Bill) Swartz, Marco Tacca

**UT Dallas Affiliated Faculty:** Larry P. Ammann, Leonidas Bleris, Yves J. Chabal, Bruce E. Gnade, Matthew J. Goeckner, Robert D. Gregg, Jiyoung Kim, Moon J. Kim, David J. Lary, Yang Liu, Robert L. Rennaker II, Mario A. Rotea, Mathukumalli Vidyasagar, Robert M. Wallace, Steve Yurkovich

**JSOM Faculty**


**Professor Emeritus:** Dale Osborne

**Clinical Professors:** John Barden, Britt Berrett, Abhijit Biswas, Pamela Foster Brady, Larry Chasteen, David Cordell, Tevfik Dalgic, Michael Deegan, Howard Dover, Greg Durham, Forney Fleming III, Randall S. Guttery, Charles Hazzard, Robert Hicks, Marilyn Kaplan, Peter Lewin, John F. McCracken, Dennis McCuistion, Radha Mookerjee, Joseph Picken, Divakar Rajamani, Daniel Rajaratnam, Kannan Ramanathan, David Ritchey, Arthur Selender, Rajiv Shah, Kelly Slaughter, Kenneth Smith, Habte Woldu, Fang Wu, Laurie L. Ziegler

**Associate Professors:** Nina Baranchuk, Norris Bruce, Huseyin Cavusoglu, Jianqing Chen, Zhonglan Dai, Xianjun Geng, Umit G. Gurun, J. Richard Harrison, Surya N. Janakiraman, Robert L. Kieschnick Jr., Nanda Kumar, Seung-Hyun Lee, Livia Markoczy, Syam Menon, Toyah Miller, Alp Muharremoglu, Ramachandran (Ram) Natarajan, Valery Polkovnichenko, Ashutosh Prasad, Orlando C. Richard, Young U. Ryu, Gil Sadka, Jane Salk, David J. Springate, Kelsey D. Wei, Jun Xia, Ying Xie, Yexiao Xu, Alejandro Zentner, Yuan Zhang, Feng Zhao, Zhiqiang (Eric) Zheng, Yibin Zhou
Clinical Associate Professors: Sonia Leach, Carolyn Reichert, Mark Thouin, John McClain Watson

Assistant Professors: Mehmet Ayvaci, Emily Choi, Rebecca Files, Bernhard Ganglmair, Dorothée Honhon, Elisabeth Honka, Kyle Hyndman, Atanu Lahiri, Sheen Levine, Bin Li, Jun Li, Meng Li, Ningzhong Li, Arzu Ozoguz, Anyan Qi, Alessio Saretto, Harpreet Singh, Gonca P. Soysal, Upender Subramanian, Shaojie Tang, Christian Von-Drathen, Yu Wang, Malcolm Wardlaw, Han (Victor) Xia, Shenqi Ye, Nir Yehuda, Yuanping Ying, Jieying Zhang, Xiaofei Zhao

Clinical Assistant Professors: Hans-Joachim Adler, Shawn Alborz, Athena Alimirzaei, Moran Bluestein, John Gamino, Ayfer Gurun, Vance Lewis, Leping Ma, Ravi Narayan, Dawn Owens, Anastasia V. Shcherbakova

Senior Lecturers: Arthur M. Agulnek, Semiramis Amirpour, Frank Anderson, Anindita Bardhan, Daniel Bochsler, Tiffany A. Bortz, Richard Bowen, Judd Bradbury, Monica E. Brussolo, George DeCourcy, Eugene (Gene) Deluke, Alexander Edsel, Amal El-Ashmawi, Carol Flannery, Mary Beth Goodrich, Maria Hasenhuttl, Jeffery (Jeff) Hicks, Jennifer G. Johnson, Lynn Carl Jones, Jackie Kimzey, Kristen Lawson, Chris Linsteadt, Michele Lockhart, Victoria D. McCrady, Diane S. McNulty, Madison Pedigo, Jared Pickens, Matt Polze, James Richards, Mark Salamasick, Avanti P. Sethi, Jeannette Sluder, Steven Solcher, David Spivey, James Szot, Luell (Lou) Thompson, Amy L. Troutman, Robert Wright, Kathy Zolton

Overview

The combination of MSEE and MS degrees can be earned by completing a minimum of 51 semester credit hours beyond prerequisites. This includes a minimum of 24 semester credit hours of approved electrical engineering courses in combination with a minimum of 27 semester credit hours of approved management courses for each of these management degrees.

Students enrolled in a combination of the MSEE and MS degree programs are permitted to:

• utilize a maximum of 9 semester credit hours from the approved list of management courses together with 12 semester credit hours of approved elective EE courses to satisfy the required 21 semester credit hours of elective courses listed in the MSEE degree requirements, and

• utilize a maximum of 9 semester credit hours from the approved list of EE courses in satisfying elective courses requirements for the MS degree requirements.

Students are required to meet all other core and elective requirements for the MSEE and MS degrees to obtain the combination of MSEE with MS graduate degrees.

All students must have a graduate advisor in the Department of Electrical Engineering in the Erik Jonsson School of Engineering and Computer Science and a graduate advisor in the Naveen Jindal School of Management who will advise on respective programs and approve a degree plan. The advising office in each school will provide a detailed listing of approved courses. Courses taken without advisor approval may not count toward the required semester credit hours. No degree will be awarded until the completion of all requirements, including the requirement for the 68 or 51 semester credit hours for the MSEE/MBA or MSEE/MS or combinations respectively.

If a student chooses at a later time to pursue only one of the two degree programs, the student MUST again seek admission into the degree program of the student’s choice and satisfy the requirements of that degree program. Prior coursework relevant to the specific degree program will be transferred, provided the course requirements have not changed.