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

ECS Faculty


Professors Emeritus: Louis R. Hunt, Duncan L. MacFarlane, William J. Pervin, Don Shaw

Research Professors: Andrew Marshall, Hisashi (Sam) Shichijo

Associate Professors: Bilal Akin, Carlos A. Busso-Recabarren, Rashaunda Henderson, Siavash Pourkamali, Chin-Tuan Tan

Associate Professor Emeritus: Gerald O. Burnham

Clinical Associate Professor: Nicholas Gans

Assistant Professors: Benjamin Carrion Schafer, Joseph Friedman, Ghanshyamsinh Gohil, Qing Gu, Yang Hu, Jae Mo Park, Chadwin D. Young

Senior Lecturers: Md Ali, Peter A. Blakey, Diana Cogan, Paul Deignan, James Florence, Matthew Heins, Jung Lee, Randall E. Lehmann, Rabah Mezenner, Miguel Razo-Razo, Ricardo E. Saad, Neal Skinner, William (Bill) Swartz, Marco Tacca


JSOM Faculty

Wing Kwong (Eric) Tsang, John J. Wiorkowski, Harold Zhang, Zhiqiang (Eric) Zheng

Professor Emeritus: Dale Osborne


Associate Professors: Nina Baranchuk, Norris Bruce, Jianqing Chen, Zhonglan Dai, Rebecca Files, J. Richard Harrison, Dorothée Honhon, Kyle Hyndman, Surya N. Janakiraman, Robert L. Kieschnick Jr., Ningzhong Li, Lívia Markóczy, Amit Mehra, Toyah Miller, Alp Muharremoglu, Ramachandran (Ram) Natarajan, Naim Bugra Ozel, Orlando C. Richard, Young U. Ryu, Gil Sadka, Jane Salk, Harpreet Singh, David J. Springate, Upender Subramanian, Kelsey D. Wei, Han (Victor) Xia, Jun Xia, Ying Xie, Yexiao Xu, Alejandro Zentner, Jieying Zhang, Yuan Zhang, Feng Zhao, Yibin Zhou

Clinical Associate Professors: Sonia Leach, David Parks, Carolyn Reichert, Avanti P. Sethi, Mark Thouin, McClain Watson

Assistant Professors: Mehmet Ayvaci, Emily Choi, Bernhard Ganglmair, Nathan Goldman, Atanu Lahiri, Sheen Levine, Jun Li, Meng Li, Xiaolin Li, Radha Mookerjee, Anyan Qi, Alejandro Rivera Mesias, Alessio Saretto, Serdar Simsek, Shaojie Tang, Christian Von-Drathen, Shouqiang Wang, Malcolm Wardlaw, Steven Xiao, Shengqi Ye, Nir Yehuda, Zhe (James) Zhang

Clinical Assistant Professors: Shawn Alborz, Athena Alimirzaei, Moran Blueshtein, Judd Bradbury, John Gamino, Ayfer Gurun, Maria Hasenhu ttl, Julie Haworth, Jeffery (Jeff) Hicks, Revansiddha Khanapure, Kristen Lawson, Liping Ma, Ravi Narayan, Dawn Owens, Parneet Pahwa, Drew Peabody, Anastasia V. Shcherbakova, Jeanne Sluder, Nassim Sohaee

Senior Lecturers: Semiramis Amirpour, Frank Anderson, Vivek Arora, Tiffany A. Bortz, Richard Bowen, Monica E. Brussolo, Juliann Chapman, George DeCourcey, Alexander Edsel, Amal El-Ashmawi, Mary Beth Goodrich, Thomas (Tom) Henderson, Jennifer G. Johnson, Jackie Kimzey, Chris Linsteadt, Joseph Mauriello, Victoria D. McCrady, Edward Meda, Prithi Narasimhan, Madison Pedigo, Matt Polze, James Richards, Debra Richardson, Anindita Roy Bardhan, Margaret Smallwood, Steven Solcher, Luell (Lou) Thompson, Amy L. Troutman, Robert Wright, Kathy Zolton, Hubert Zydorek

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

ECS Faculty

Professors: Naofal Al-Dhahir, Poras T. Balsara, Dinesh Bhatia, Andrew J. Blanchard, Yun Chiu, Ann
(Catrina) Coleman, James J. Coleman, Babak Fahimi, John P. Fonseka, William R. Frensley, Andrea
Kiasaleh, Gil S. Lee, Hoi Lee, Jeong-Bong Lee, Jin Liu, Dongsheng (Brian) Ma, Giorgos (Yiorgos) Makris,
Hlaing Minn, Won Namgoong, Aria Nosratinia, Mehrdad Nourani, Kenneth K. O, Lawrence J. Overzet,
Issa M. S. Panahi, Mohammad Saquib, Carl Sechen, Mark W. Spong, Lakshman Tamil, Murat Torlak,
Dian Zhou

Professors Emeritus: Louis R. Hunt, Duncan L. MacFarlane, William J. Pervin, Don Shaw

Research Professors: Andrew Marshall, Hisashi (Sam) Shichijo

Associate Professors: Bilal Akin, Carlos A. Busso-Recabarren, Rashaunda Henderson, Siavash
Pourkamali, Chin-Tuan Tan

Associate Professor Emeritus: Gerald O. Burnham

Clinical Associate Professor: Nicholas Gans

Assistant Professors: Benjamin Carrion Schafer, Joseph Friedman, Ghanshyamsinh Gohil, Qing Gu,
Yang Hu, Jae Mo Park, Chadwin D. Young

Senior Lecturers: Md Ali, Peter A. Blakey, Diana Cogan, Paul Deignan, James Florence, Matthew
Heins, Jung Lee, Randall E. Lehmann, Rabah Mezenner, Miguel Razo-Razo, Ricardo E. Saad, Neal
Skinner, William (Bill) Swartz, Marco Tacca

UT Dallas Affiliated Faculty: Larry P. Ammann, Leonidas Bleris, Yves J. Chabal, Wonjae Choi,
Massimo V. Fischetti, Matthew J. Goeckner, Robert D. Gregg, Zygmunt Haas, Christopher L. Hinkle,
Kenneth Hoyt, Russell A. Hulse, Jiyoun Kim, Moon J. Kim, David J. Lary, Yaoyu Li, Yang Liu, Ann
Majewicz Fey, S.O. Reza Moheimani, Wooram Park, Robert L. Rennaker II, Fabiano Rodrigues, Mario
A. Rotea, Justin Ruths, Tyler Summers, Yonas Tadesse, William VanDenberge, Mathukumalli
Vidyasagar, Amy V. Walker, Robert M. Wallace, Jun Wang, Steve Yurkovich, Jie Zhang

JSOM Faculty

Professors: Ashiq Ali, Indranil R. Bardhan, Alain Bensoussan, Gary Bolton, Metin Çakanyildirim,

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.