Dual Master’s Degree Program in Systems Engineering & Systems and Project Management

Providing students with core competencies in Systems Engineering and Project Management, with a complex systems thinking perspective

The NTU/Stevens Dual Master’s Degree leverages the academic leadership of Nanyang Technological University (NTU) in the area of Project Management and Stevens Institute of Technology in Systems Engineering, to deliver a program that is highly relevant to the skill competency and education needs of today’s industry and government professionals.

This multidisciplinary dual degree program strives to prepare students for positions in management and leadership, who are capable of utilizing a common systems thinking approach to effectively manage complex systems, successfully lead global project teams to be more effective and productive, who can conceptualize, plan, develop and lead the systems and program management processes of their organizations.

Students receive a Master of Science in Systems and Project Management from NTU, and a Master of Engineering in Systems Engineering from Stevens Institute of Technology. Students can also complete coursework leading to a Graduate Certificate in Systems Engineering & Architecting, and two Graduate Certificates in Systems Engineering Management.
Dual Master’s Degree Program Structure and Course Requirements
To meet the degree requirements, candidates must earn 30 course credits by taking 5 courses from Stevens Institute of Technology and four courses from NTU plus an independent study project.

Stevens Institute of Technology
Master of Engineering in Systems Engineering
Candidates select five courses from the following Stevens Institute of Technology Systems Engineering courses:
- SYS/SDOE 625 Fundamentals of Systems Engineering
- SYS/SDOE 605 Systems Integration
- SYS/SDOE 650 System Architecture and Design
- EM/SDOE 612 Project Management of Complex Systems
And one additional course from either:
- SYS/SDOE 660 Decision & Risk Analysis
- EM/SDOE 680 Designing and Managing the Development Enterprise

Nanyang Technological University
Master of Science in Systems and Project Management
Candidates select any of the four courses from the following NTU Systems and Project Management courses:
- M6141 Quality Engineering
- M6205 Systems Simulation and Modeling
- M6601 Human Factors Engineering Fundamentals
- MA6546 Enterprise IT/IS Project Management
- L6103 Supply Chain: Strategy and Design
- MA6547 Management of Complex Engineering Projects
- M6426 Management of Technology and Innovation
- MA6548 Project Estimation and Cost Management

Independent Study
MA6700 Dissertation, OR
MA6701 Independent Study
Students participate in an independent study under the guidance of Stevens Institute of Technology and NTU faculty advisors.

Program Details
Students admitted into the Dual Master’s Degree program, will spend one semester abroad at the respective host university, and will complete the host School’s required course work on-site. Students will receive a rich multi-cultural educational experience by spending time in two world-class global cities Singapore and New York/New Jersey.

Admissions
Students applying for admission into the Dual Master’s Degree program must currently hold a Bachelor degree in Engineering, Applied Science, or equivalent, from a recognized university.
Prospective students apply for admission through their home university. Students are required to submit two letters of recommendation, and all official college transcripts.
A TOEFL score of 550 or above is required for non-Singaporean international students.
Admission preference is provided to candidates with a minimum of two (2) years of practical work experience. Candidates with exceptional academic results may be exempted from the practical experience requirements.

"The Dual Degree Program in Systems Engineering and Project Management from Stevens Institute of Technology and Nanyang Technological University offers a unique opportunity for students of these disciplines and for professionals addressing complex systems and enterprises. Skills in these disciplines are critical for the development of complex systems in the services market worldwide. This program, from two leading technical universities, brings a global perspective to the system problem and provides the tools to address the challenges of today’s global enterprises."

Dr. Katherine C. Hegmann
General Manager, Global Integration – Growth Markets IBM
About the Universities:

Nanyang Technological University (NTU) is a globally recognized research-intensive university providing education programs in Engineering, Science and Technology. NTU has a rich history dating back to 1955, and is considered among the top universities in the world. NTU has four colleges with 12 schools, and two autonomous entities, the National Institute of Education and S Rajaratnam School of International Studies. The School of Mechanical and Aerospace Engineering offers leading undergraduate and graduate programs in Aerospace Engineering and in Mechanical Engineering.

Stevens Institute of Technology is among the oldest and most prestigious Engineering schools in the United States. Established in 1870, the university provides world-class undergraduate and graduate education programs in Engineering, Science, and Technology Management. The School of Systems and Enterprises at Stevens offers the largest Systems Engineering program in the nation, in addition to providing graduate programs in Engineering Management, Financial Engineering, Space Systems Engineering, Systems-Centric Software Engineering and Enterprise Systems.

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