

**Rice University 4+1 Programs**

*Programs that allow Rice undergraduates to complete both a bachelor's degree and master's degree in five years*

**Master of Arts in Architecture (MA Arch)**

Research-oriented program leading to a nonprofessional degree of Master of Arts in Architecture. The program is a two semester, special-topic course of student.

<http://rsa.rice.edu/Academics/Academic-Programs/Graduate-Overview/>

**Master of Arts in Teaching (MAT)**

The MAT is a non-thesis degree program for students who want to qualify for secondary school teaching following a bachelor's degree. Rice undergraduate students can pursue both their undergraduate and graduate degrees concurrently, completing the MAT with generally one additional year of study beyond the bachelor's degree.

<http://teach.rice.edu/undergraduate-5-year-mat>

**Master of Accounting (MAcc)**

Rice undergraduates can apply and gain conditional admission to the MAcc program as early as the fall semester of their junior year and as late as the fall semester of their senior year. Conditionally admitted students who lack any of the prerequisite accounting courses must take appropriate classes to correct their deficiency.

[http://business.rice.edu/macc\\_apply/](http://business.rice.edu/macc_apply/)

**Master of Bioengineering (MBE)**

A non-thesis degree that provides students with greater depth in their bioengineering training to advance their career objectives.

<http://bioengineering.rice.edu/MBE.aspx>

**Master of Chemical Engineering (MChE)**

The MChE program offers a non-thesis professional degree intended to better prepare students for a career in the field of chemical engineering. The curriculum is designed for recent graduates with a bachelor degree in chemical engineering to complete in two semesters (Fall and Spring).

<http://chbe.rice.edu/Content.aspx?id=86>

**Master of Computational and Applied Mathematics (MCAM)**

The Professional Masters of Computational and Applied Mathematics (MCAM) is a non-thesis masters program designed for students interested in a technical career path in industry or business. The MCAM program provides students with a fundamental understanding of computational and applied mathematics tools that are essential to tackle complex problems in science, engineering and business. With proper planning and coordination of undergraduate major(s) and senior year courses, Rice undergraduates have the option to complete the MCAM degree with just a 5th year of study.

[http://www.caam.rice.edu/mcam\\_program.html](http://www.caam.rice.edu/mcam_program.html)

**Master of Energy Economics (MEECON)**

Rice undergraduates may apply to the Master of Energy Economics in the second semester of their senior year. The twelve-month program trains participants to provide insightful analysis and to inform

such things as capital asset decisions, firm strategic direction and future market orientation by combining the disciplined study of market and economic principles with a deep understanding of the functioning and inter-connections of the energy industry.

<http://economics.rice.edu/graduate-program/MEECON>

#### **Master of Global Affairs (MGA)**

Rice undergraduate students may apply to the Master of Global Affairs (MGA) program as a 4+1 option to earn both their baccalaureate and master's degrees in five years. If accepted, students take courses toward the master's degree in their senior year, while they complete requirements for their baccalaureate degree.

<http://mga.rice.edu/admissions/fifth-year-option.aspx>

#### **Master of Public Health (MPH)**

This program will allow selected undergraduate students interested in public health to enroll in up to 5 core courses at the UT School of Public Health during their senior year and obtain dual undergraduate and graduate credit. This unique BA/BS-MPH program will enable accepted students to accelerate and complete their Master of Public Health degree (MPH) in one year after completing their undergraduate degree.

[http://students.rice.edu/students/Rice-UT-Public\\_Health\\_Scholars\\_Program.aspx](http://students.rice.edu/students/Rice-UT-Public_Health_Scholars_Program.aspx)

#### **Master of Science in Bioscience and Health Policy**

Rice students have an option to achieve the MS in bioscience and health policy by adding an additional fifth year to the four undergraduate years of science studies. Advanced Rice students in good standing apply during their junior year, then start taking required core courses of the bioscience and health policy program during their senior year.

<http://www.profms.rice.edu/bios.aspx?ID=869>

#### **Master of Science in Environmental Analysis and Decision Making**

Rice students have an option to achieve the MS in environmental analysis and decision making by adding an additional fifth year to the four undergraduate years of science studies. Advanced Rice students in good standing apply during their junior year, then start taking required core courses of the environmental analysis and decision making program during their senior year.

<http://www.profms.rice.edu/Environmental.aspx>

#### **Master of Science in Nanoscale Physics**

Rice students have an option to achieve the MS in nanoscale physics by adding an additional fifth year to the four undergraduate years of science studies. Advanced Rice students in good standing apply during their junior year, then start taking required core courses of the nanoscale physics program during their senior year.

<http://www.profms.rice.edu/Nanoscale.aspx>

#### **Master of Science in Space Studies**

Rice students have an option to achieve the MS in space studies by adding an additional fifth year to the four undergraduate years of science studies. Advanced Rice students in good standing apply during their junior year, then start taking required core courses of the space studies program during their senior year.

<http://www.profms.rice.edu/spacestudies.aspx?id=1003>



**Master of Science in Subsurface Geoscience**

Rice students have an option to achieve the MS in subsurface geoscience by adding an additional fifth year to the four undergraduate years of science studies. Advanced Rice students in good standing apply during their junior year, then start taking required core courses of the subsurface geoscience program during their senior year.

<http://www.profms.rice.edu/subgeo.aspx?id=62>



### **Professional Masters Programs**

*Professional programs which primarily provide advanced course work and a professional component and lead to master's degrees in certain specified disciplines.*

#### **Master of Architecture (MArch)**

Thesis-based, professional degree program leading to various stages of professional accreditation.

<http://rsa.rice.edu/Academics/Academic-Programs/Graduate-Overview/>

#### **Master of Business Administration (MBA)**

Offered by the Jones Graduate School of Business, the MBA degree can be obtained via the Full-Time MBA Program, the MBA for Professionals Program, or the MBA for Executives Program.

<http://business.rice.edu/academic-program/full-time-mba>

#### **MBA/Master of Engineering**

This program is offered by the JGSB and the George R. Brown School of Engineering, in any of the departments of engineering. This program prepares students to become managers in organizations requiring a high level of technical expertise and management skills.

[http://business.rice.edu/JGSB2011\\_2Column.aspx?id=988](http://business.rice.edu/JGSB2011_2Column.aspx?id=988)

#### **MBA/Master of Science**

This program is offered by the JGSB and the Weiss School of Natural Sciences Professional Science Master's (PSM) Program. This program prepares students to become managers in organizations requiring specialized technical knowledge and general management skills.

[http://business.rice.edu/JGSB2011\\_2Column.aspx?id=2147483937](http://business.rice.edu/JGSB2011_2Column.aspx?id=2147483937)

#### **Master of Civil and Environmental Engineering (MCEE)**

The MCEE is a professional non-thesis degree with sub-tracks in Civil Engineering or Sustainable Environmental Engineering and Design. Degree requires 30 semester hours of approved course work including a final project of 2 semester hours.

<http://ceve.rice.edu/degrees.aspx>

#### **Master in Computational Science and Engineering (MCSE)**

The Master in Computational Science and Engineering (MCSE) is a non-thesis degree program offered jointly by the Department of Computational and Applied Mathematics, Computer Science and Statistics in the School of Engineering. The program is designed to provide training and expertise in modern computational techniques that will find application in a wide range of industries, and technical and managerial functions within them.

<http://engrprofmasters.blogs.rice.edu/departments/data-science-and-engineering/>

#### **Master of Computer Science (MCS)**

The professional MCS degree is a terminal degree for students intending to pursue a technical career in the computer industry. Areas of concentration for the MCS include algorithms and complexity, artificial intelligence, robotics, compiler construction, distributed and parallel computing, graphics and geometric modeling, operating systems, and programming languages. The professional program normally requires three semesters of study.

<http://www.cs.rice.edu/academics/graduate-studies/mcs/>

**Master of Electrical Engineering**

The master of electrical engineering (MEE) degree is a course-based program designed to increase a student's mastery of advanced subjects; no thesis is required. The MEE prepares a student to succeed and advance rapidly in today's competitive technical marketplace.

<http://www.ece.rice.edu/academics/mee/>

**Master of Liberal Studies (MLS)**

The part-time Master of Liberal Studies (MLS) program is designed for those who love to learn new ideas and discuss them with others. The MLS program allows students to explore timeless and timely human questions within the humanities, social sciences and sciences.

<http://mls.rice.edu>

**Master of Material Science and Nano Engineering (MMSNE)**

The professional Master of Material Science and NanoEngineering (MMSNE) is open to students who have shown academic excellence in their undergraduate studies. This non-thesis degree option, combining engineering coursework with professional development and communications, is designed for engineers who have attained a bachelor's degree and are looking to further their careers in industry.

<http://msne.rice.edu/Content.aspx?id=71>

**Master of Mechanical Engineering (MME)**

The professional master's degree in Mechanical Engineering (MME) is a non-thesis degree program intended for students who have completed a 4-year bachelor's program in engineering and wish to enter industry as practicing professionals, rather than pursuing a research oriented or academic career.

<http://mech.rice.edu/Content.aspx?id=2147483987>

**Master of Statistics (MStat)**

The professional Master of Statistics (MStat) Program includes a solid foundation in statistical computing, statistical modeling, experimental design, and mathematical statistics, plus electives in statistical methods and/or theory. It is a bridge to industry, designed to provide advanced learning and training in the applied aspects of statistics theory, methodology and techniques beyond the typical undergraduate program.

<http://statistics.rice.edu/mstat/>



**Research Oriented Master's Degree Programs**

*Master's Degree programs that include both advanced coursework and original research typically leading to a thesis and/or manuscript with an oral defense.*

**Chemical Engineering, MS**

<http://chbe.rice.edu/Content.aspx?id=85>

**Civil Engineering, MS**

<http://ceve.rice.edu/degrees.aspx>

**Computational and Applied Math, MA**

[http://www.caam.rice.edu/grad\\_program.html](http://www.caam.rice.edu/grad_program.html)

**Earth Science, MS**

<http://earthscience.rice.edu/academics/graduate-thesis-programs/>

**Environmental Engineering, MS**

<http://ceve.rice.edu/degrees.aspx>

**Mechanical Engineering, MS**

<http://mech.rice.edu/Content.aspx?id=2147483979>

**Material Science and Nano Engineering, MS**

<http://msne.rice.edu/Content.aspx?id=64>