U.S. News and World Report Ranks NYU Online Graduate Engineering Among Top 10 in Nation

U.S. News & World Report ranked NYU Polytechnic School of Engineering’s online graduate engineering No. 8 in the nation this year, the third successive year it ranked the school among the top dozen virtual graduate engineering programs.

The NYU School of Engineering piloted active learning — which engages students in interactive, high quality learning modules — for professional education classes developed with Scientific American.

It subsequently began rolling out the pedagogical approach across all its online courses. Students get unlimited access to lectures 24/7 from anywhere in the world. Then, during real-time webinars, students participate in live Q&A sessions. With their instructor and fellow students, they share ideas using video, screen-sharing, chat rooms, interactive polling, and built-in phone and VOIP lines. High-quality video, audio, multimedia, and animation also engage students. NYU encourages weekly live sessions that prompt peer-to-peer learning for students and allow faculty to adapt to the needs of their students. It is an organic experience that grows and evolves to create the next generation of online learning courses.

A recent survey of NYU-ePoly graduates by the school revealed 100 percent job placement within six months of graduation; for those already holding jobs, 40 percent reported they received a promotion or raise within the same period. Nearly 80 percent of those entering the online program graduated. By comparison, the National Council of Graduate Schools study found an average completion rate of 66 percent for science, technology, engineering, and mathematics master’s degree programs.

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New 3-Course Data Science, Energy, Cloud Immersion Certificates Bridge Fortune 500 Technical Skills Gap Online

Fortune 500 companies looking to move the talent needle forward, can now send employees through online 3-course Immersion Certificates in data science, power engineering, data centers, and cloud technologies offered by NYU Enterprise Learning.

The new Data Science certificate delivers three-courses in big data analysis, machine learning and principles of database systems (which may be substituted with visualization or cloud computing).

“Organizations are drowning in data but starving for insights,” noted Professor Nasir Memon, chair of the Computer Science and Engineering Department. “The Data Science certificate provides coursework immediately applicable to personnel working on complex data problems.”

Demand for big data expertise closely follows a noted McKinsey Global Institute report estimating that by 2018, “the United States alone could face a shortage of 140,000 to 190,000 people with deep analytical skills, as well as 1.5 million managers and analysts with the know-how to use the analysis of big data to make effective decisions.”

In the fast-growing data center industry, skills derived from the online 3-course Data Centers and Cloud Technologies series allow employees to apply their know-how immediately to data center networking and resource management, Internet protocols, and cloud computing.

The online Power Technologies certificate gives company staff core competencies to support electric power systems, electronic power supplies, and electric drives in the burgeoning energy sector.

Each certificate can be completed in one year in a trimester schedule. Students who enter the corporate lockstep series earn nine credits that may be applied to a qualifying master’s degree.

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Spring Online Graduate Enrollment Leaps Ahead 15%

In a great leap forward, enrollment in NYU Engineering’s online graduate courses this semester increased by 15% over last spring. The jump is far ahead of national online numbers which, according to the Online Learning Consortium’s last tally, increased by 9.3%.
Active Learning
Revolutionizing Virtual Delivery (Update)

Following its highly successful nine-course Active Learning pilot last year in the school’s joint Scientific American Professional Learning Program, NYU-ePoly is moving ahead rapidly by adding ten new Active Learning courses in the program this year. Student surveys showed marked positive results in confidence, attention span, enjoyment, clarity, and graphic presentation. Of the 112 students polled, positive learning experiences were reported with an average 4.5 rating within a 5.0 point system.

Using top-of-the-line eLearning tools, HD video and audio, as well as innovative instructional design pedagogy, NYU-ePoly aims to revolutionize online learning at the NYU School of Engineering by migrating nearly 100 online Master’s legacy courses to Active Learning by 2017.

McGraw-Hill Education Selects NYU Engineering In Digital Learning Research Partnership

In an exciting alliance, McGraw-Hill Education selected several notable faculty from NYU Schools of Engineering and Education to participate in joint research on digital education. The agreement covers studies in adaptive learning, data science, and visualization of large data sets. The NYU team is led by Claudio Silva in the Computer Science Department, in collaboration with Jan Plass from the NYU Steinhardt School and School of Engineering faculty Luke DuBois and Enrico Bertini.
Manny Cancel and Sandra Milano have recently been appointed to the NYU Enterprise Learning board. Cancel is vice president of Information Resources at ConEdison. In his career, Cancel has held various positions in engineering, systems planning, and related responsibilities. Milano is vice president in the Technology Division at Goldman Sachs and chief of staff to Chief Information Risk Officer Philip Venables. Milano serves as the global head of Awareness and Education for Technology Risk.

Richard Danzig, vice chair of the RAND Corporation and secretary of the Navy in the Clinton administration, delivered a compelling talk as the fifth Sloan Foundation-sponsored Cybersecurity Lecture on December 10, 2014, at NYU School of Engineering’s Brooklyn campus. Videostreamed throughout the world, Danzig’s distinguished lecture, “Surviving on a Diet of Poisoned Fruit,” proposed strategies for coping with the paradox presented by cyber systems – digital systems grant us unprecedented powers, but they also make us less secure. Danzig’s talk was followed by a lively discussion by noted panelists Ralph Langner, founder and director of Langner Communications in Germany; Andy Ozment, assistant secretary of the Department of Homeland Security’s Office of Cybersecurity and Communications; and Stefan Savage, director of the Center for Network Systems at the University of California, San Diego.

Danzig’s lecture drew the greatest media coverage in the series thus far, with alerts carried by more than 300 websites, reaching a potential audience of more than 21 million. The event was covered by CBS News, IEEE Spectrum, and multiple articles in the highly regarded newsletter Inside Cybersecurity. The event was seen by viewers throughout the U.S. and in Denmark, Austria, Colombia, Australia, and Argentina. The next Sloan lecture, in partnership with NYU School of Law, will be delivered this spring.

View the archived lecture at http://engineering.nyu.edu/sloanseries/poisoned-fruit.php.
All archived and future lectures can be found here http://engineering.nyu.edu/sloanseries.