

# PROGRAMS

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- History, Technology, and Society. BS (<http://www.catalog.gatech.edu/programs/history-technology-society-bs>)
- Industrial Design. BS (<http://www.catalog.gatech.edu/programs/industrial-design-bs>)
- Industrial Engineering. BS (<http://www.catalog.gatech.edu/programs/industrial-engineering-bs>)
- International Affairs. BS (<http://www.catalog.gatech.edu/programs/international-affairs-bs>)
- International Affairs and Modern Language. BS (<http://www.catalog.gatech.edu/programs/international-affairs-modern-language-bs>)
- Literature, Media, and Communication. BS (<http://www.catalog.gatech.edu/programs/literature-media-communication-bs>)
- Mathematics. BS (<http://www.catalog.gatech.edu/programs/mathematics-bs>)
- Materials Science and Engineering. BS (<http://www.catalog.gatech.edu/programs/materials-science-bs>)
- Mechanical Engineering. BS (<http://www.catalog.gatech.edu/programs/mechanical-engineering-bs>)
- Music Technology. BS (<http://www.catalog.gatech.edu/programs/music-technology-bs>)
- Neuroscience. BS (<http://www.catalog.gatech.edu/programs/neuroscience-bs>)
- Nuclear and Radiological Engineering. BS (<http://www.catalog.gatech.edu/programs/nuclear-radiological-bs>)
- Physics. BS (<http://www.catalog.gatech.edu/programs/physics-bs>)
- Psychology. BS (<http://www.catalog.gatech.edu/programs/psychology-bs>)
- Public Policy. BS (<http://www.catalog.gatech.edu/programs/public-policy-bs>)

- Aerospace Engineering. MS (<http://www.catalog.gatech.edu/programs/aerospace-engineering-ms>)
- Analytics. MS (<http://www.catalog.gatech.edu/programs/analytics-ms>)
- Applied Languages and Intercultural Studies. MS (<http://www.catalog.gatech.edu/programs/applied-languages-intercultural-studies-ms>)
- Applied Systems Engineering. PMASE (<http://www.catalog.gatech.edu/programs/applied-systems-engineering-pmase>)
- Architecture. M.Arch (<http://www.catalog.gatech.edu/programs/march>), MS (<http://www.catalog.gatech.edu/programs/architecture-ms>)
- Bioengineering. MS (<http://www.catalog.gatech.edu/programs/bioengineering-ms>)
- Bioinformatics. MS (<http://www.catalog.gatech.edu/programs/bioinformatics-ms>)
- Biomedical Engineering. MS (<http://www.catalog.gatech.edu/programs/biomedical-engineering-ms>)
- Biology. MS (<http://www.catalog.gatech.edu/programs/biology-ms>)
- Biomedical Innovation and Development. MBID (<http://www.catalog.gatech.edu/programs/master-biomedical-innovation-development>)
- Building Construction and Facility Management. MS (<http://www.catalog.gatech.edu/programs/building-construction-facility-management-ms>)
- Business Administration. MBA (<http://www.catalog.gatech.edu/programs/mba>).
- Business Administration - Global Business. MBA (<http://www.catalog.gatech.edu/programs/mba-global-business-executive>).
- Business Administration - Management of Technology. MBA (<http://www.catalog.gatech.edu/programs/mba-management-technology-executive>).
- Chemical Engineering. MS (<http://www.catalog.gatech.edu/programs/chemical-engineering-ms>)
- Chemistry. MS (<http://www.catalog.gatech.edu/programs/chemistry-ms>)
- City and Regional Planning. MCRP (<http://catalog.gatech.edu/programs/mcrp>)
- City and Regional Planning & Architecture. M.Arch/MCRP (<http://catalog.gatech.edu/programs/march-mcrp-dual-degree>)
- City and Regional Planning & Civil Engineering. MCRP/MSCE (<http://catalog.gatech.edu/programs/mcrp-msce-dual-degree>)
- City and Regional Planning & Public Policy. MCRP/MSPP (<http://catalog.gatech.edu/programs/mcrp-public-policy-ms>)
- City and Regional Planning & Law. MCRP/JD (<http://catalog.gatech.edu/programs/planning-law-mcrp-jd>)
- Civil Engineering. MS (<http://www.catalog.gatech.edu/programs/civil-engineering-ms>)
- Computational Science and Engineering. MS (<http://www.catalog.gatech.edu/programs/computational-science-engineering-ms>)
- Computer Science. MS (<http://www.catalog.gatech.edu/programs/computer-science-ms>)
- Cybersecurity. MS (<http://www.catalog.gatech.edu/programs/cybersecurity-ms>)
- Digital Media. MS (<http://www.catalog.gatech.edu/programs/digital-media-ms>)
- Earth and Atmospheric Sciences. MS (<http://www.catalog.gatech.edu/programs/earth-atmospheric-sciences-ms>)
- Economics. MS (<http://www.catalog.gatech.edu/programs/economics-ms>)
- Electrical and Computer Engineering. MS (<http://www.catalog.gatech.edu/programs/electrical-computer-engineering-ms>)
- Engineering Science and Mechanics. MS (<http://www.catalog.gatech.edu/programs/engineering-science-mechanics-ms>)
- Environmental Engineering. MS (<http://www.catalog.gatech.edu/programs/environmental-engineering-ms>)
- Geographic Information Science and Technology. MS (<http://www.catalog.gatech.edu/programs/gist-ms>)
- Global Media and Cultures. MS (<http://www.catalog.gatech.edu/programs/global-media-cultures-ms>)
- Health Systems. MS (<http://www.catalog.gatech.edu/programs/health-systems-ms>)
- History and Sociology of Technology and Science. MS (<http://www.catalog.gatech.edu/programs/history-sociology-technology-science-ms>)
- Human-Computer Interaction. MS (<http://www.catalog.gatech.edu/programs/human-computer-interaction-ms>)
- Industrial Design. M.ID (<http://www.catalog.gatech.edu/programs/masters-industrial-design>)
- Industrial Engineering. MS (<http://www.catalog.gatech.edu/programs/industrial-engineering-ms>)
- International Affairs. MS (<http://www.catalog.gatech.edu/programs/international-affairs-ms>)
- International Logistics. MS (<http://www.catalog.gatech.edu/programs/international-logistics-ms>)
- Management. MS (<http://www.catalog.gatech.edu/programs/management-ms-executive>)
- Materials Science and Engineering. MS (<http://www.catalog.gatech.edu/programs/materials-science-engineering-ms>)
- Mathematics. MS (<http://www.catalog.gatech.edu/programs/mathematics-ms>)
- Mechanical Engineering. MS (<http://www.catalog.gatech.edu/programs/mechanical-engineering-ms>)
- Medical Physics. MS (<http://www.catalog.gatech.edu/programs/medical-physics-ms>)
- Manufacturing Leadership. PMML (<http://www.catalog.gatech.edu/programs/manufacturing-leadership-pmml>)
- Music Technology. MS (<http://www.catalog.gatech.edu/programs/music-technology-ms>)
- Nuclear Engineering. MS (<http://www.catalog.gatech.edu/programs/nuclear-engineering-ms>)
- Operations Research. MS (<http://www.catalog.gatech.edu/programs/operations-research-ms>)
- Occupational Safety and Health. PMOSH (<http://www.catalog.gatech.edu/programs/occupational-safety-health-pmosh>)
- Physics. MS (<http://www.catalog.gatech.edu/programs/physics-ms>)

- Psychology. MS (<http://www.catalog.gatech.edu/programs/psychology-ms>)
- Public Policy. MS (<http://www.catalog.gatech.edu/programs/public-policy-ms>)
- Quantitative and Computational Finance. MS (<http://www.catalog.gatech.edu/programs/quantitative-computational-finance-ms>)
- Real Estate Development. MRED (<http://www.catalog.gatech.edu/programs/master-real-estate-development>)
- Statistics. MS (<http://www.catalog.gatech.edu/programs/statistics-ms>)
- Supply Chain Engineering. MS (<http://www.catalog.gatech.edu/programs/supply-chain-engineering-ms>)
- Sustainable Electrical Energy. PMSEE (<http://www.catalog.gatech.edu/programs/sustainable-electrical-energy-pmsee>)
- Sustainable Energy and Environmental Management. MSEEM (<http://www.catalog.gatech.edu/programs/master-sustainable-energy-environmental-management>)
- Urban Design. MS (<http://www.catalog.gatech.edu/programs/urban-design-msud>)
- Aerospace Engineering. PhD (<http://www.catalog.gatech.edu/programs/aerospace-engineering-phd>)
- Algorithms, Combinatorics, and Optimization. PhD (<http://www.catalog.gatech.edu/programs/algorithms-combinatorics-optimization-phd>)
- Applied Physiology. PhD (<http://www.catalog.gatech.edu/programs/applied-physiology-phd>)
- Architecture. PhD (<http://www.catalog.gatech.edu/programs/architecture-phd>)
- Bioengineering. PhD (<http://www.catalog.gatech.edu/programs/bioengineering-phd>)
- Bioinformatics. PhD (<http://www.catalog.gatech.edu/programs/bioinformatics-phd>)
- Biology. PhD (<http://www.catalog.gatech.edu/programs/biology-phd>)
- Biomedical Engineering. PhD (<http://www.catalog.gatech.edu/programs/biomedical-engineering-phd>)
- Building Construction. PhD (<http://www.catalog.gatech.edu/programs/building-construction-phd>)
- Chemical Engineering. PhD (<http://www.catalog.gatech.edu/programs/chemical-engineering-phd>)
- Chemistry. PhD (<http://www.catalog.gatech.edu/programs/chemistry-phd>)
- City and Regional Planning. PhD (<http://www.catalog.gatech.edu/programs/city-regional-planning-phd>)
- Civil Engineering. PhD (<http://www.catalog.gatech.edu/programs/civil-engineering-phd>)
- Computational Science and Engineering. PhD (<http://www.catalog.gatech.edu/programs/computational-science-engineering-phd>)
- Computer Science. PhD (<http://www.catalog.gatech.edu/programs/computer-science-phd>)
- Digital Media. PhD (<http://www.catalog.gatech.edu/programs/digital-media-phd>)
- Earth and Atmospheric Sciences. PhD (<http://www.catalog.gatech.edu/programs/earth-atmospheric-sciences-phd>)
- Economics. PhD (<http://www.catalog.gatech.edu/programs/economics-phd>)
- Electrical and Computer Engineering. PhD (<http://www.catalog.gatech.edu/programs/electrical-computer-engineering-phd>)
- Engineering Science and Mechanics. PhD (<http://www.catalog.gatech.edu/programs/engineering-science-mechanics-phd>)
- Environmental Engineering. PhD (<http://www.catalog.gatech.edu/programs/environmental-engineering-phd>)
- History and Sociology of Technology and Science. PhD (<http://www.catalog.gatech.edu/programs/history-sociology-technology-science-phd>)
- Human-Centered Computing. PhD (<http://www.catalog.gatech.edu/programs/human-centered-computing-phd>)
- Industrial Engineering. PhD (<http://www.catalog.gatech.edu/programs/industrial-engineering-phd>)
- International Affairs, Science, and Technology. PhD (<http://www.catalog.gatech.edu/programs/international-affairs-science-technology-phd>)
- Machine Learning. PhD (<http://www.catalog.gatech.edu/programs/machine-learning-phd>)
- Management. PhD (<http://www.catalog.gatech.edu/programs/management-phd>)
- Materials Science and Engineering. PhD (<http://www.catalog.gatech.edu/programs/materials-science-phd>)
- Mathematics. PhD (<http://www.catalog.gatech.edu/programs/mathematics-phd>)
- Mechanical Engineering. PhD (<http://www.catalog.gatech.edu/programs/mechanical-engineering-phd>)
- Music Technology. PhD (<http://www.catalog.gatech.edu/programs/music-technology-phd>)
- Nuclear Engineering. PhD (<http://www.catalog.gatech.edu/programs/nuclear-engineering-phd>)
- Ocean Science and Engineering. PhD (<http://www.catalog.gatech.edu/programs/ocean-science-engineering-phd>)
- Operations Research. PhD (<http://www.catalog.gatech.edu/programs/operations-research-phd>)
- Physics. PhD (<http://www.catalog.gatech.edu/programs/physics-phd>)
- Psychology. PhD (<http://www.catalog.gatech.edu/programs/psychology-phd>)
- Public Policy. PhD (<http://www.catalog.gatech.edu/programs/public-policy-phd>)
- Public Policy Joint Degree with Georgia State University. PhD (<http://www.catalog.gatech.edu/programs/public-policy-phd-joint-gsu>)
- Quantitative Biosciences. PhD (<http://www.catalog.gatech.edu/programs/quantitative-biosciences-phd>)
- Robotics. PhD (<http://www.catalog.gatech.edu/programs/robotics-phd>)
- Analytics. MS (<http://www.catalog.gatech.edu/programs/analytics-ms/#designatorsandoptionstext>)
- Computer Science. MS (<http://www.catalog.gatech.edu/programs/computer-science-ms/#designatorsandoptionstext>)
- Cybersecurity. MS (<http://www.catalog.gatech.edu/programs/cybersecurity-ms/#designatorsandoptionstext>)

### **Georgia Institute of Technology offers three types of Certificates: Undergraduate Embedded**

Undergraduate embedded certificates are intended to encourage students to use the elective course requirements in their degree program to form a coherent package of coursework in a specified area.

Undergraduate embedded certificates will be granted only to students who, in addition to the undergraduate embedded certificate program requirements, have satisfied requirements for an undergraduate degree. The offering unit is responsible for verifying satisfaction of all undergraduate embedded certificate requirements, as well as completion of an undergraduate degree. Undergraduate embedded certificates are not recorded on the student's transcript or diploma. Arrangements must be made for awarding undergraduate embedded certificates within colleges or offering units. Undergraduate embedded certificates will not be awarded at the Institute level.

**Undergraduate Certificate Guidelines** (<http://catalog.gatech.edu/policies/certificate-guidelines/undergraduate-certificate-guidelines>)

#### **Graduate Embedded**

Graduate embedded certificates are intended to encourage students to use the elective course requirements in their degree program to form a coherent package of coursework in a specified area.

Graduate embedded certificates will be granted only to students who, in addition to the graduate embedded certificate program requirements, have satisfied requirements for an graduate degree. The offering unit is responsible for verifying satisfaction of all graduate embedded certificate requirements, as well as completion of an graduate degree. Graduate embedded certificates are not recorded on the student's transcript or diploma. Arrangements must be made for awarding graduate embedded certificates within colleges or offering units. Graduate embedded certificates will not be awarded at the Institute level.

#### **Graduate Embedded Certificate Guidelines**

##### **Graduate Stand-Alone** (p. 9)

Stand-alone certificates may be completed independent of students being enrolled as Master's or Doctoral student. These certificates represent a cohesive program of study of a smaller size than a Master's program and provide more flexibility to professionals for pursuing graduate education, including a means for professionals to renew and retrain due to a fast-changing work force. When completed, these certificates appear on the student's academic record (transcript), and the student receives a certificate of completion.

#### **Graduate Stand-Alone Certificate Guidelines**

### **Undergraduate Embedded Certificates**

- Applied Physiology. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-applied-physiology>)
- Architecture and Society. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-architecture-society>)
- Astrophysics. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-astrophysics>)
- Biologically Inspired Design. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-biologically-inspired-design>)
- Biomedical Science. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-biomedical-science>)
- Biomolecular Technology. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-biomolecular-technology>)
- Business Analytics. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-business-analytics>)
- Business Law and Ethics. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-business-law-ethics>)
- Chinese. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-chinese>)
- Computation and Quantitative Biology. Undergraduate Certificate (<http://catalog.gatech.edu/policies/certificate-guidelines/undergraduate-certificate-guidelines>)
- Computational Design. Undergraduate Certificate (<http://catalog.gatech.edu/policies/certificate-guidelines/undergraduate-certificate-guidelines>)
- Construction Management. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-construction-management>)
- Economics. Undergraduate Certificate (<http://catalog.gatech.edu/policies/certificate-guidelines/undergraduate-certificate-guidelines>)
- Entrepreneurship. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-entrepreneurship>)
- Environmental Science. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-environmental-science>)
- European Affairs. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-european-affairs>)
- French. Undergraduate Certificate (<http://catalog.gatech.edu/policies/certificate-guidelines/undergraduate-certificate-guidelines>)
- German. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-german>)
- Information Technology Management. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-information-technology-management>)
- Integrative Biology. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-integrative-biology>)
- Intellectual Property. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-intellectual-property>)
- International Business. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-international-business>)
- Japanese. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-japanese>)



- Latin American Affairs. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-latin-american-affairs>)
- Leadership and Organizational Change. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-leadership-organizational-change>)
- Linguistics. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-linguistics>)
- Marine Science. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-marine-science>)
- Nuclear and Radiological Engineering. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-nuclear-radiological-engineering>)
- Philosophy. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-philosophy>)
- Physics of Living Systems. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-physics-living-systems>)
- Pre-Law. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-pre-law>)
- Political Science. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-political-science>)
- Public Policy. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-public-policy>)
- Pulp & Paper. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-pulp-paper>)
- Real Estate Development. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-real-estate-development>)
- Russian. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-russian>)
- Scenarios, Models and Military Games. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-scenarios-models-military-games>)
- Software Engineering. Undergraduate Certificate (<http://catalog.gatech.edu/policies/certificate-guidelines/undergraduate-certificate-guidelines>)
- Spanish. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-spanish>)
- Strategy & Innovation. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-strategy-innovation>)
- Sustainable Architecture. Undergraduate Certificate (<http://www.catalog.gatech.edu/programs/undergraduate-embedded-certificate-sustainable-architecture>)
- Geographic Information Systems. Graduate Certificate (<http://www.catalog.gatech.edu/programs/graduate-embedded-certificate-geographic-information-systems>)
- Industrial Design Fundamentals. Graduate Certificate (<http://www.catalog.gatech.edu/programs/embedded-graduate-certificate-industrial-design-fundamentals>)
- Mechanical Properties of Materials. Graduate Certificate (<http://www.catalog.gatech.edu/programs/graduate-embedded-certificate-mechanical-properties-of-materials>)
- Micro Electro Mechanical Systems. Graduate Certificate (<http://www.catalog.gatech.edu/programs/graduate-embedded-certificate-microelectro-mechanical-systems>)
- Public Policy. Graduate Certificate (<http://www.catalog.gatech.edu/programs/graduate-embedded-certificate-public-policy>)
- Science, Technology, and Society. Graduate Certificate (<http://www.catalog.gatech.edu/programs/graduate-embedded-certificate-science-technology-and-society>)

### Graduate Stand-Alone Certificates

- Sustainable Energy and Environmental Management. Graduate Certificate (<http://www.catalog.gatech.edu/programs/graduate-stand-alone-certificate-sustainable-energy-environmental-management>)

Once graduate stand-alone certificate programs are approved by the Institute, they will be listed here.

### Graduate Embedded Certificates

- Astrobiology. Graduate Certificate (<http://www.catalog.gatech.edu/programs/graduate-embedded-certificate-astrobiology>)
- BioRobotics. Graduate Certificate (<http://www.catalog.gatech.edu/programs/graduate-embedded-certificate-biorobotics>)