

# PROGRAMS

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- Aerospace Engineering. Minor, BS, MS, PhD
- African Studies. Minor
- Algorithms, Combinatorics, and Optimization. PhD
- Analytics. MS
- Applied Languages and Intercultural Studies. BS, MS
- Applied Physics. BS
- Applied Physiology. PhD
- Applied Systems Engineering. PMASE
- Architecture. Minor, BS, M.Arch, MS, PhD
- Biochemistry. BS
- Bioengineering. MS, PhD
- Bioinformatics. MS, PhD
- Biology. Minor, BS, MS, PhD
- Biomedical Engineering. Minor, BS, MS, PhD
- Biomedical Innovation and Development. MBID
- Building Construction. BS, PhD
- Building Construction and Facility Management. MS
- Business Administration. BS, MBA.
- Business Administration - Global Business. MBA.
- Business Administration - Management of Technology. MBA.
- Chemical and Biomolecular Engineering. BS
- Chemical Engineering. MS, PhD
- Chemistry. BS, MS, PhD
- Chemistry and Biochemistry. Minor
- Chinese. Minor
- City and Regional Planning. MCRP, PhD
- Civil Engineering. BS, MS, PhD
- Computational Data Analysis. Minor
- Computational Media. BS
- Computational Science and Engineering. MS, PhD
- Computer Engineering. BS
- Computer Science. BS, MS, PhD
- Computing and Business. Minor
- Computing and Devices. Minor
- Computing and Information Internetworks. Minor
- Computing and Intelligence. Minor
- Computing and Media. Minor
- Computing and People. Minor
- Computing and Systems and Architecture. Minor
- Computing and Theory. Minor
- Cybersecurity. MS
- Digital Media. MS, PhD
- Earth and Atmospheric Sciences. Minor, BS, MS, PhD
- East Asian Studies. Minor
- Economics. Minor, BS, MS, PhD
- Economics and International Affairs. BS
- Electrical Engineering. BS
- Electrical and Computer Engineering. MS, PhD
- Energy Systems. Minor
- Engineering and Business. Minor
- Engineering Science and Mechanics. MS, PhD
- Environmental Engineering. BS, MS, PhD
- European Studies. Minor
- Film and Media Studies. Minor
- French. Minor
- Geographic Information Science and Technology. MS
- German. Minor
- Global Development. Minor
- Global Economics and Modern Languages. BS
- Global Media and Cultures. MS
- Health and Medical Sciences. Minor
- Health, Medicine, and Society. Minor
- Health Systems. MS
- History. Minor
- History, Technology, and Society. BS
- History and Sociology of Technology and Science. MS, PhD
- Human-Computer Interaction. MS
- Human-Centered Computing. PhD
- Industrial Design. Minor, BS, M.ID
- Industrial Engineering. BS, MS, PhD
- International Affairs. Minor, BS, MS
- International Affairs and Modern Language. BS
- International Affairs, Science, and Technology. PhD
- International Business, Language, and Culture. Minor
- International Security. MS
- Japanese. Minor
- Korean. Minor
- Latin American/LatinX Studies. Minor
- Law, Science, and Technology. Minor
- Leadership Studies. Minor
- Linguistics. Minor
- Literature, Media, and Communication. BS
- Machine Learning. PhD
- Management. MS, PhD.
- Materials Science and Engineering. Minor, BS, MS, PhD
- Mathematics. Minor, BS, MS, PhD
- Mechanical Engineering. BS, MS, MS (undesignated), PhD
- Medical Physics. MS
- Manufacturing Leadership. PMML
- Microeconomics of Strategic Analysis. Minor
- Middle Eastern and North African Studies. Minor
- Music. Minor
- Music Technology. Minor, BS, MS, PhD
- Naval Science. Minor
- Nuclear Engineering. MS, PhD
- Nuclear and Radiological Engineering. Minor, BS
- Neuroscience. BS
- Ocean Science and Engineering. PhD
- Operations Research. MS, PhD
- Occupational Safety and Health. PMOSH
- Philosophy. Minor
- Physics. Minor, BS, MS, PhD

- Physiology. Minor
  - Political Science. Minor
  - Psychology. Minor, BS, MS, PhD
  - Public Policy. Minor, BS, MS, PhD
  - Quantitative Biosciences. PhD
  - Quantitative and Computational Finance. MS
  - Real Estate Development. MRED
  - Robotics. Minor, MS, PhD
  - Russian. Minor
  - Science, Technology, and Society. Minor
  - Science Fiction Studies. Minor
  - Scientific and Engineering Computing. Minor
  - Social Justice. Minor
  - Sociology. Minor
  - Spanish. Minor
  - Sports, Society, and Technology. Minor
  - Statistics. MS
  - Supply Chain Engineering. MS
  - Sustainable Cities. Minor
  - Sustainable Electrical Energy. PMSEE
  - Sustainable Energy and Environmental Management. MSEEM
  - Technology and Business. Minor
  - Urban Analytics. MS
  - Urban Design. MS
  - Women, Science, and Technology. Minor
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  - Global Development. Minor
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  - Computer Engineering. BS

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- Economics. BS
- Economics and International Affairs. BS
- Electrical Engineering. BS
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- International Affairs. MS
- International Security. MS
- Management. MS
- Materials Science and Engineering. MS
- Mathematics. MS
- Mechanical Engineering. MS, MS (undesigned)
- Medical Physics. MS
- Manufacturing Leadership. PMML
- Music Technology. MS
- Nuclear Engineering. MS
- Operations Research. MS
- Occupational Safety and Health. PMOSH
- Physics. MS
- Psychology. MS
- Public Policy. MS
- Quantitative and Computational Finance. MS
- Real Estate Development. MRED
- Robotics. MS
- Statistics. MS
- Supply Chain Engineering. MS
- Sustainable Electrical Energy. PMSEE
- Sustainable Energy and Environmental Management. MSEEM
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- Urban Design. MS
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- Architecture. PhD
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- Bioinformatics. PhD
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- Civil Engineering. PhD
- Computational Science and Engineering. PhD
- Computer Science. PhD
- Digital Media. PhD
- Earth and Atmospheric Sciences. PhD
- Economics. PhD
- Electrical and Computer Engineering. PhD
- Engineering Science and Mechanics. PhD
- Environmental Engineering. PhD
- History and Sociology of Technology and Science. PhD
- Human-Centered Computing. PhD
- Industrial Engineering. PhD

- International Affairs, Science, and Technology. PhD
- Machine Learning. PhD
- Management. PhD.
- Materials Science and Engineering. PhD
- Mathematics. PhD
- Mechanical Engineering. PhD
- Music Technology. PhD
- Nuclear Engineering. PhD
- Ocean Science and Engineering. PhD
- Operations Research. PhD
- Physics. PhD
- Psychology. PhD
- Public Policy. PhD
- Quantitative Biosciences. PhD
- Robotics. PhD

**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

**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**

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**

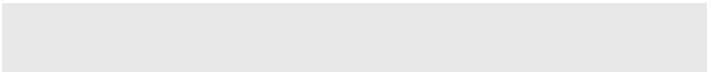
- Accounting. Undergraduate Certificate
- Applied Physiology. Undergraduate Certificate
- Architecture and Society. Undergraduate Certificate
- Astrophysics. Undergraduate Certificate
- Biologically Inspired Design. Undergraduate Certificate
- Biomedical Science. Undergraduate Certificate
- Biomolecular Technology. Undergraduate Certificate
- Business Analytics. Undergraduate Certificate
- Business Law and Ethics. Undergraduate Certificate
- Chinese. Undergraduate Certificate
- Computational and Quantitative Biology. Undergraduate Certificate
- Computational Design. Undergraduate Certificate
- Construction Management. Undergraduate Certificate
- Economics. Undergraduate Certificate
- Entrepreneurship. Undergraduate Certificate
- Environmental Science. Undergraduate Certificate
- European Affairs. Undergraduate Certificate
- Finance. Undergraduate Certificate
- French. Undergraduate Certificate
- German. Undergraduate Certificate
- Information Technology Management. Undergraduate Certificate
- Integrative Biology. Undergraduate Certificate
- Intellectual Property. Undergraduate Certificate
- International Business. Undergraduate Certificate
- Japanese. Undergraduate Certificate
- Latin American Affairs. Undergraduate Certificate
- Leadership and Organizational Change. Undergraduate Certificate
- Linguistics. Undergraduate Certificate
- Marine Science. Undergraduate Certificate
- Marketing. Undergraduate Certificate
- Nuclear and Radiological Engineering. Undergraduate Certificate
- Operations and Supply Chain Management. Undergraduate Certificate
- Philosophy. Undergraduate Certificate
- Physics of Living Systems. Undergraduate Certificate
- Pre-Law. Undergraduate Certificate
- Political Science. Undergraduate Certificate
- Public Policy. Undergraduate Certificate
- Pulp & Paper. Undergraduate Certificate
- Real Estate Development. Undergraduate Certificate
- Russian. Undergraduate Certificate
- Scenarios, Models and Military Games. Undergraduate Certificate
- Software Engineering. Undergraduate Certificate
- Spanish. Undergraduate Certificate
- Strategy & Innovation. Undergraduate Certificate
- Sustainable Architecture. Undergraduate Certificate
- Sustainable Business. Undergraduate Certificate

## Graduate Embedded Certificates

- Astrobiology. Graduate Certificate
- BioRobotics. Graduate Certificate
- Computational Materials Science and Engineering. Graduate Certificate
- Geographic Information Systems. Graduate Certificate
- Industrial Design Fundamentals. Graduate Certificate
- Mechanical Properties of Materials. Graduate Certificate
- Micro Electro Mechanical Systems. Graduate Certificate
- Public Policy. Graduate Certificate
- Science, Technology, and Society. Graduate Certificate

## Graduate Stand-Alone Certificates

- Data Science for the Chemical Industry. Graduate Certificate
- Global Development. Graduate Certificate
- International Security and Aerospace Systems. Graduate Certificate
- Sustainable Energy and Environmental Management. Graduate Certificate



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