

# Woodruff School of Mechanical Engineering (2018-19 Catalog Year)

## Certificates at Georgia Tech

Certificate guidelines: [www.catalog.gatech.edu/policies/certificate-guidelines/](http://www.catalog.gatech.edu/policies/certificate-guidelines/)

Certificate	Department	Certificate	Department
Architecture & Society Computational Design Sustainable Architecture	Architecture	Accounting Business Analytics Entrepreneurship Finance IT Management International Business Marketing Operations & Supply Chain Management Strategy & Innovation	Business
Applied Physiology Bio-Inspired Design Biomedical Science Biomolecular Technology Computational & Quantitative Biology Environmental Science Integrative Biology Marine Science	Biological Sciences	Biomaterials Composites Nanomaterials	Material Science & Engineering
Construction Management	Building Construction	Nuclear Engineering	Mechanical Engineering
Pulp & Paper	ChBE	Chinese French German Japanese Russian Spanish Linguistics	Modern Languages
Land Development Real Estate Development	City & Regional Planning	Fine Arts	Music
African-American Studies American Literature & Culture Asian Affairs European Affairs Film Studies History Intellectual Property International Affairs Latin American Affairs Literary & Cultural Studies Philosophy of Science & Technology Pre-law Scenarios, Models, & Military Games Sociology	Ivan Allen College of Liberal Arts	Astrophysics	Physics
		Biopsychology Cognitive Psychology Engineering Psychology Experimental Psychology Industrial / Organizational Psychology Social / Personality Psychology	Psychology

### Department Websites Showing Certificate Requirements:

- Architecture: <https://arch.gatech.edu/architecture-certificates>
- Biological Sciences: <http://biosci.gatech.edu/undergrad/biological-sciences-certificates>
- Building Construction: <https://bc.gatech.edu/undergraduate-certificate>
- Business: [www.scheller.gatech.edu/degree-programs/undergraduate/courses-curriculum/certificates/index.html](http://www.scheller.gatech.edu/degree-programs/undergraduate/courses-curriculum/certificates/index.html)
- Chemical & Biomolecular Engineering (ChBE): <http://www.chbe.gatech.edu/pulp-and-paper-certificate-program>
- City & Regional Planning: [www.planning.gatech.edu/undergraduate-certificate-and-courses](http://www.planning.gatech.edu/undergraduate-certificate-and-courses)
- Ivan Allen College of Liberal Arts: [www.iac.gatech.edu/academics/undergraduate](http://www.iac.gatech.edu/academics/undergraduate)
- Material Science & Engineering: [www.mse.gatech.edu/undergraduate/certificates](http://www.mse.gatech.edu/undergraduate/certificates)
- Mechanical Engineering (Nuclear Engineering): [www.nre.gatech.edu/academics/nre/ug/curriculum](http://www.nre.gatech.edu/academics/nre/ug/curriculum)
- Modern Languages: [www.modlangs.gatech.edu/degrees/minors-and-certificates](http://www.modlangs.gatech.edu/degrees/minors-and-certificates)
- Music: <https://music.gatech.edu/undergradcertificate>
- Physics: [www.physics.gatech.edu/academics/undergraduate/astrophysics](http://www.physics.gatech.edu/academics/undergraduate/astrophysics)
- Psychology: [www.psychology.gatech.edu/certificates-psychology](http://www.psychology.gatech.edu/certificates-psychology)

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## Minors at Georgia Tech

- Minor Programs of Study & Guidelines: <http://catalog.gatech.edu/academics/minors/>
- Form to declare or remove a minor: <http://www.registrar.gatech.edu/docs/pdf/MINORCHANGE.pdf>

Aerospace Engineering	Linguistics
Architectural History	Materials Science and Engineering
Architecture	Mathematics
Biochemistry	Middle Eastern and North African Studies
Biology	Multi-disciplinary Design / Arts History
Biomedical Engineering	Music (2 options)
Chemistry	Music Technology
Chinese	Naval Science
Computational Data Analysis	Nuclear and Radiological Engineering
Computer Science (8 options)	Performance Studies
Earth and Atmospheric Sciences (7 options)	Philosophy
East Asian Studies	Physics
Economics	Physiology
Energy Systems (specific majors only)	Political Science
Engineering and Business	Psychology
Film and Media Studies	Public Policy
French	Robotics
German	Russian Studies
Global Development	Science Fiction Studies
Health and Medical Sciences	Science, Technology, and Society
Health, Medicine, and Society	Scientific and Engineering Computing
History	Social Justice
Industrial Design	Sociology
International Affairs	Spanish
International Business, Language, and Culture	Sports, Society and Technology
Japanese	Sustainable Cities
Korean	Technical Communication
Law, Science and Technology	Technology and Business
Leadership Studies (3 options)	Women, Science and Technology

## Concentrations in Mechanical Engineering (ME Students Only)

- Concentrations are optional, not required. They are only available to ME undergraduates.
- Concentration rules and regulations: [www.me.gatech.edu/undergraduate/ug-curr/concentrations](http://www.me.gatech.edu/undergraduate/ug-curr/concentrations)

Concentration	Program of Study
Automation and Robotic Systems	<a href="http://www.me.gatech.edu/files/ug/conc_auto.pdf">www.me.gatech.edu/files/ug/conc_auto.pdf</a>
Automotive Engineering	<a href="http://www.me.gatech.edu/files/ug/conc_automotive.pdf">www.me.gatech.edu/files/ug/conc_automotive.pdf</a>
Design	<a href="http://www.me.gatech.edu/files/ug/conc_design.pdf">www.me.gatech.edu/files/ug/conc_design.pdf</a>
Manufacturing	<a href="http://www.me.gatech.edu/files/ug/conc_mfg.pdf">www.me.gatech.edu/files/ug/conc_mfg.pdf</a>
Mechanics of Materials	<a href="http://www.me.gatech.edu/files/ug/conc_mat.pdf">www.me.gatech.edu/files/ug/conc_mat.pdf</a>
Micro- and Nano- Engineering	<a href="http://www.me.gatech.edu/files/ug/conc_nano.pdf">www.me.gatech.edu/files/ug/conc_nano.pdf</a>
Nuclear Energy	<a href="http://www.me.gatech.edu/files/ug/conc_nuc.pdf">www.me.gatech.edu/files/ug/conc_nuc.pdf</a>
Thermal, Fluids and Energy	<a href="http://www.me.gatech.edu/files/ug/conc_therm.pdf">www.me.gatech.edu/files/ug/conc_therm.pdf</a>