GRADUATE EMBEDDED CERTIFICATE IN ASTROBIOLOGY

The Astrobiology Graduate Certificate Program is part of an initiative linking the schools of Earth and Atmospheric Sciences, Chemistry and Biochemistry, Biological Sciences, Aerospace Engineering, and International Affairs. The purpose of the certificate program is to expand opportunities for students in the interdisciplinary field of 'astrobiology', and to forge innovative links between astrobiology research at Georgia Tech, mission technology, and science communication. The 12-credit certificate program is open to graduate students enrolled in any degree program at the Georgia Institute of Technology. There are no prerequisites for entering the certificate program.

For more information, click here (https://astrobiology.gatech.edu/graduate-certificate).

Program of Study

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<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<td>EAS 8802</td>
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Cognate course

- AE 6353 Orbital Mechanics
- AE 6450 Rocket Propulsion
- AE 6451 Electric Propulsion
- BIOL/EAS Geomicrobiology 6765
- BIOL 6410 Microbial Ecology
- BIOL 6428 Population Dynamics
- BIOL 6600 Evolution
- BIOL 6607 Molecular Biology of Microbes: Disease, Nature, and Biotechnology
- BIOL 6720 Environmental Microbial Genomics
- CHEM 6572 Macromolecular Structure
- CHEM 6582 Biophysical Chemistry
- EAS 6122 Biogeochemical Cycles
- EAS 6130 Earth System Modeling
- EAS 6200 Environmental Geochemistry
- EAS 6216 Isotope Geochemistry
- EAS 6370 Physics of Planets
- EAS 6375 Earth and Planetary Materials
- EAS 6380 Land Remote Sensing

Special Topics

- BIOL 7111 Molecular Evolution
- BIOL 8744 Microbial Symbiosis & Microbiomes
- BIOL 8803 Special Topics (Origin of Complex Life: Cells to Societies)
- CHEM 8853 Special Topics in Biochemistry (Structure, Function & Origins of Biological Macromolecules)
- EAS 8803 Special Topics (Ice-Ocean Moons and Planets)
- EAS 8803 Special Topics (Origin of Planetary Systems)
- EAS 8803 Special Topics (Earth System Evolution in a Planetary Context)
- INTA 8001 Seminar in Science, Technology and International Affairs II
- INTA 8803 Special Topics (Space Policy)

Mission Design course

- AE 6372 Aerospace Systems Engineering
- AE 6561 Reliable Control Software for Aerospace and Embedded Applications
- AE 8803 Special Topics (Satellite Orbit Determination)
- AE 8803 Special Topics (Small Satellite Design I/II)
- CHEM 8813/8823 Special Topics in Inorganic Chemistry (Instrument Design)
- EAS 6360 Space Physics and Space Instrumentation
- EAS 8803 Special Topics (Team X Spacecraft Design)

Total Credit Hours 12

- Students may submit documentation to use a course not listed above.
- All courses must be completed with a 'B' grade or higher.