

Allen E. Paulson College of Engineering and Computing

The Allen E. Paulson College of Engineering and Computing at Georgia Southern University offers undergraduate and graduate degree programs in six academic departments. The Bachelor of Science degree programs include Civil Engineering, Computer Engineering, Computer Science, Construction, Construction Engineering, Electrical Engineering, Information Technology and BIT Online, Manufacturing Engineering and Mechanical Engineering. The Regents' Engineering Pathway (REP) Program is also offered as an option for undergraduate students to earn an engineering degree at Georgia Southern or one of four other Georgia institutions that offer engineering degrees.

At the graduate level, the College offers Master of Science degree programs in Civil Engineering, Computer Science, Electrical Engineering, Information Technology, Mechanical Engineering, and Applied Engineering (Advanced Manufacturing Engineering and Engineering Management). Thesis or non-thesis tracks are available within each program. For each of these MS degree programs, the College offers the Accelerated Bachelors to Masters (ABM) option. The ABM provides a pathway to earn both a BS and a MS degree in five years, all of which are currently offered only on the Statesboro campus.

The MS in Applied Engineering degree program has two concentrations from which to choose: Advanced Manufacturing Engineering and Engineering Management. The program is under the purview of the Department of Manufacturing Engineering, and is designed to give students the hands-on experience they will need to be problem-solvers and leaders in consumer, commercial and industrial engineering fields.

The MS in Civil Engineering degree program provides students with industry-ready skills coupled with innovative and cutting-edge research experience in their field of interest. The program serves both full-time students preparing for a career as a civil engineering professional, and currently employed professionals seeking an advanced education to augment their existing skills and background. The MSCE at Georgia Southern comprises technical coursework and a thesis or non-thesis tracks in five main areas:

- Construction Engineering
- Environmental/Water Resources Engineering
- Transportation-Pavement/Geotechnical Engineering
- Structural Engineering
- Surveying-Geomatics

The MS in Computer Science degree program is designed as a hybrid program to allow those with degrees in traditional, non-computing fields to earn a master's degree in computer science. The Georgia Southern MSCS program offers the only Data Mining and Data Warehousing concentrations in Georgia — one of only a handful of such master's degrees in the world. The program is designed to prepare its students for a career in knowledge-based data systems, including software development, computer systems analysis, computer systems engineering, network engineering, database design, computer programming and software systems development.

The MS in Electrical Engineering degree program is designed to meet the global need for engineers who possess leadership skills but also applications experience in consumer, commercial and industrial fields.

MSEE graduates are innovators prepared to become responsible, strategic leaders and exceptional engineering professionals. Courses include analytical math and experimental research in areas such as

autonomous systems, optical communications, wireless power, antennas and propagation, and energy harvesting. The program serves both the full-time students preparing for careers in Electrical Engineering, as well as currently employed Electrical Engineering professionals seeking advanced education to augment their existing skills and background.

The MS in Information Technology degree program at Georgia Southern integrates state-of-the-art technology and interdisciplinary and conceptual science with hands-on, operational skills preparation. Students gain valuable knowledge and are placed in a unique position to make an immediate impact on their career and their employers. The MSIT program embraces the constantly changing IT industry, prepares graduates to analyze and manage IT networks and systems. Courses include IT management, data analytics, networking, data management and storage, and network security. Research conducted through the thesis or independent study project provides opportunity for individualized in-depth study within the concentration.

The MS in Mechanical Engineering degree program provides focused and specialized educational opportunities beyond the BS degree. Students select coursework concentrations in Energy Science, Mechatronics, and general Mechanical Engineering, while conducting in-depth research. The MSME degree prepares engineers to accept greater project responsibility while advancing more quickly in their chosen careers.

Vision

The Allen E. Paulson College of Engineering and Computing will be a recognized leader in student-centric experiential learning, applied research in engineering and computing, and service to our communities.

Mission

The Allen E. Paulson College of Engineering and Computing is to advance the engineering and computing disciplines, ensure student success, and support regional economic development. This will be accomplished by promoting excellence in faculty teaching and scholarship, fostering experiential learning, and partnering with regional stakeholders.

College Structure

- Department of Civil Engineering and Construction (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/civil-engineering-construction-management/>)
- Department of Computer Science (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/computer-science/>)
- Department of Electrical and Computer Engineering (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/electrical-computer-engineering/>)
- Department of Information Technology (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/information-technology/>)
- Department of Manufacturing Engineering (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/manufacturing-engineering/>)
- Department of Mechanical Engineering (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/mechanical-engineering/>)

Experiential Learning Opportunities - Internships

Internships are supervised experiential learning programs, designed to allow students an opportunity to receive practical experience in their chosen field of study. Internships provide rich professional development content and connect students with relevant experiences that enhance their graduate education. Not only do they prepare students for their next steps after graduation, whether that involves a full-time job or furthering

their education, internships can provide a means for students to financially support themselves and fund their education. Students should contact Dr. Reinhold Gerbsch, Director of Industrial Relations in the Allen E. Paulson College of Engineering and Computing, Office of the Dean for further information.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (<https://catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/advisement/>) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu.

Programs

Master's

- Applied Engineering M.S.A.E. (Concentration in Advanced Manufacturing Engineering) (Non-Thesis) (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/manufacturing-engineering/applied-engineering-msae-advanced-manufacturing-engineering-concentration-nt/>)
- Applied Engineering M.S.A.E. (Concentration in Advanced Manufacturing Engineering) (Thesis) (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/manufacturing-engineering/applied-engineering-msae-advanced-manufacturing-engineering-concentration/>)
- Applied Engineering M.S.A.E. (Concentration in Engineering Management) (Non-Thesis) (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/manufacturing-engineering/applied-engineering-msae-engineering-management-concentration-nt/>)
- Applied Engineering M.S.A.E. (Concentration in Engineering Management) (Thesis) (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/manufacturing-engineering/applied-engineering-msae-engineering-management-concentration/>)
- Civil Engineering M.S.C.E. (Non-Thesis) (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/civil-engineering-construction-management/civil-engineering-msce-non-thesis/>)
- Civil Engineering M.S.C.E. (Thesis) (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/civil-engineering-construction-management/civil-engineering-msce-thesis/>)
- Computer Science M.S. (Hybrid) (Non-Thesis) (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/computer-science/computer-science-ms-hybrid-nt/>)
- Computer Science M.S. (Hybrid) (Thesis) (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/computer-science/computer-science-ms-hybrid/>)
- Electrical Engineering M.S.E.E. (Non-Thesis) (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/electrical-computer-engineering/electrical-engineering-msee-non-thesis/>)
- Electrical Engineering M.S.E.E. (Thesis) (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/electrical-computer-engineering/electrical-engineering-msee-thesis/>)
- Information Technology M.S.I.T. (Non-Thesis) (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/information-technology/information-technology-msit-non-thesis/>)

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- Information Technology M.S.I.T. (Thesis) (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/information-technology/information-technology-msit-thesis/>)
- Mechanical Engineering M.S.M.E. (Non-Thesis) (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/mechanical-engineering/mechanical-engineering-msme-non-thesis/>)
- Mechanical Engineering M.S.M.E. (Thesis) (<http://catalog.georgiasouthern.edu/graduate/allen-paulson-engineering-computing/mechanical-engineering/mechanical-engineering-msme-thesis/>)

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