

Georgia Southern University

Master of Science in Electrical Engineering (MSEE) for Robins Air Force Base and the Surrounding Region

Georgia Southern University

1906 – Founded as the 1st District A&M School

27,000 – University Enrollment

141 – Degree Programs across 9 Colleges

1970 – Engineering Technology programs established

2009 – Engineering programs established

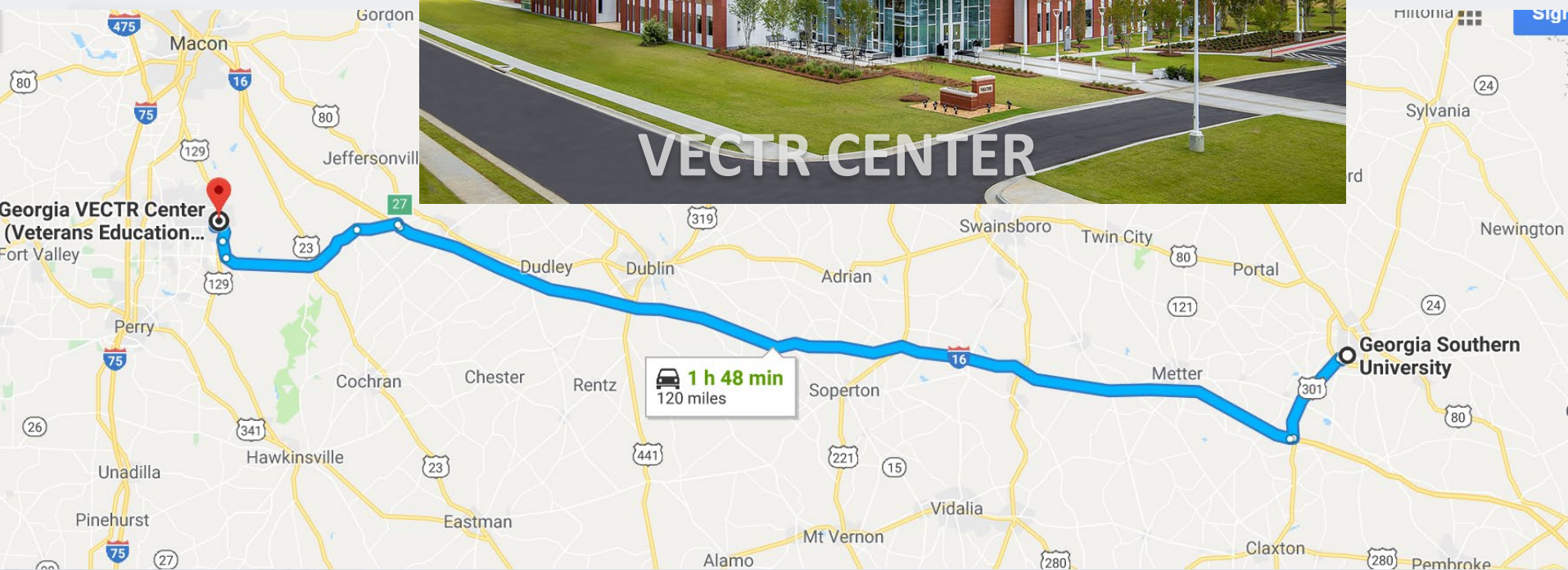
2012 – College of Engineering and Computing founded

4,000 – Enrollment in College of Engineering and Computing



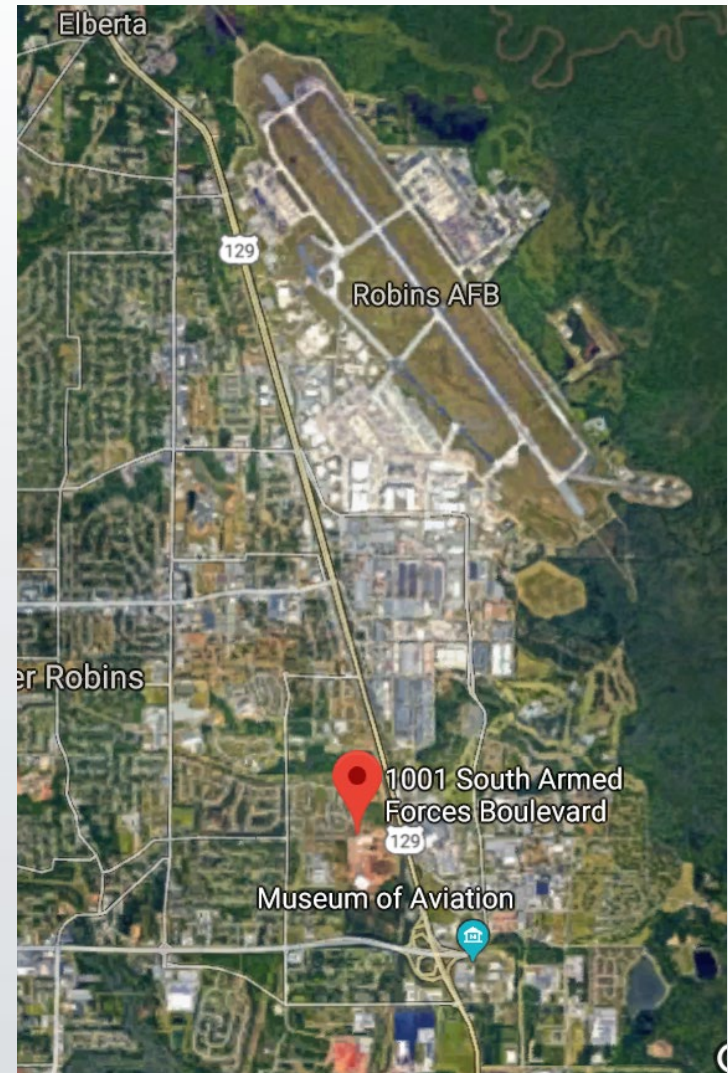
Driving to Georgia Southern

- Trip to Georgia Southern is essentially traffic free and can easily be made in less than two hours.



VECTR Center - Convenient Location

- Located just outside the Robins AFB gate; classes to be offered during the 6:30 pm to 9:30 pm.
- Courses are open to the public to support the tech sector in Macon area.
- Faculty make two trips per semester for face-to-face.
- Some online courses are also available.



VECTR Center

- To successfully transition veterans and their families into Georgia's public colleges, universities and the state's workforce.



Costs

Tuition Schedule

Hours	Tuition	Fees	Total
12+	3,318	290	3,608
9	2,493	290	2,783
6	1,662	290	1,952
3	831	145	976

MSEE

- ◆ Tuition & Fees:

- One Year: $2,783 + 2,783 + 3,608 = \$9,174$

- Two Years: $2 \times (1,952 + 976 + 1,952) = 4888 \times 2 = \$9,760$

- ◆ Books : Estimated to be \$1500 Total

- ◆ Application fee : \$ 50

VECTR Center MSEE

• **Electrical Engineering Specialties:**

- Antennas & Wireless Propagation
- Bio-Signal Detection, Processing and Instrumentation
- Robotics & Control Systems
- Communication Systems
- Cybersecurity
- Computer & Embedded Systems
- Electronic Warfare
- Power Generation & Distribution
- Renewable Energy, Harvesting & Generation
- Smart Grids
- **And other related areas!**

Thesis or Non-Thesis Track Options (30 credit hours)

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• Core Courses:

EENG 7530	Research in Electrical Engineering	3 credits
EENG 7330	Advanced Electromagnetics	3 credits
EENG 7331	Advanced Digital Signal Processing	3 credits
EENG 7332	Digital Control Systems	3 credits
EENG 7333	Advanced Power Systems	3 credits

• Elective Courses:

(Thesis) Choose 3 technical electives	9 credits	or
(non-Thesis) Choose 4 technical electives	12 credits	

• Capstone Activity:

(Thesis) EENG 7999	6 credits	or
(non-Thesis) Independent Study EENG 7891	3 credits	

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• Technical Electives:

EENG 5234G	Nuclear Power System Fundamentals
EENG 5235G	Converters Control Techniques
EENG 5242G	Power System Protection
EENG 5243G	Power Electronics
EENG 5244G	Smart Grids Technology Fundamentals
EENG 5330G	Network Architecture and Protocols
EENG 5341G	Robotic System Design
EENG 5342G	Computer System Design
EENG 5431G	Control System
EENG 5432G	Programmable Logic Controllers
EENG 5433G	Machine Learning and Adaptive Control
EENG 5434G	Engineering Optimization Methods
EENG 5532G	Wireless Communications
EENG 5533G	Optical Fiber Communications
EENG 5535G	Electronic Warfare
EENG 5538G	Cyber Security
EENG 5540G	Communication System
EENG 5541G	Digital Communications
EENG 5543G	Antennas and Wireless Propagation
EENG 5890G	Selected Topics in Electrical Engineering*
EENG 7890	Selected Topics in Electrical Engineering*
EENG 7895	Special Problems in Electrical Engineering

*Selected Topics include but not limited to Case Studies in offered on sufficient demand.

Or other graduate level courses, as approved by the major professor

◆ Progression Options (30 Hours/10 Classes) – Sample

SEMESTER	Spring 1 st year	Summer 1 st year	Fall 1 st year	Spring 2 nd year	Summer 2 nd year	Fall 2 nd year	Total Classes
1-Year Program	4	2	4				10
2-Year Program	2	1	2	2	1	2	10

◆ Format: Hybrid: Site-Sync Classrooms and Online

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- **One-Year Suggested Curriculum for a Master of Science in Electrical Engineering (MSEE) for Robins AFB People (Non-Thesis track):**

All courses will be offered as fully-online or hybrid.

Spring Semester (12 credits total)

EENG 7330	Advanced Electromagnetics (hybrid)	3 credits
EENG 7331	Advanced Digital Signal Processing (hybrid)	3 credits
EENG 7891	Independent Study (fully-online or hybrid)	3 credits
1st Technical Elective	(fully-online or hybrid)	3 credits

Summer Semester (6 credits)

2nd Technical Elective	(fully-online or hybrid)	3 credits
3rd Technical Elective	(fully-online or hybrid)	3 credits

Fall Semester (12 credits total)

EENG 7530	Research in Electrical Engineering (hybrid)	3 credits
EENG 7332	Digital Control Systems (hybrid)	3 credits
EENG 7333	Advanced Power Systems (hybrid)	3 credits
4th Technical Elective	(fully-online or hybrid)	3 credits

TOTAL		30 credits
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VECTR Center MSEE

• Special notes:

- Admission Requirements are <https://cogs.georgiasouthern.edu/admission/master-of-science-in-electrical-engineering/>
- MSEE admission deadline.

	Fall	Spring	Summer
Priority Deadline	March 1*	October 1*	Does Not Admit
Final Deadline	July 1*	November 15*	Does Not Admit

*The application and all required documents listed on the “admissions requirements” tab for the program must be received by the deadline. If all required documents are not received by the deadline your application will not be considered for admission.

- GRE score is NOT required for MSEE admission.
- The first semester can be either Fall or Spring Semester.
- All hybrid classes are lectured after 6pm once a week in Statesboro campus. All lectures will be streamed in real time via internet.
- All fully-online classes will use modules with organized contents in the Folio website (<https://its.georgiasouthern.edu/its/tools/folio/>). Each Module consists of pages, files and activities such as recorded lecture videos, manuscripts, assignments, quizzes, term project, midterm exams, and the final exam. Students can navigate from module to module and from page to page or task within each module.
- Robins AFB people can access the Folio at any time.

Contact

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