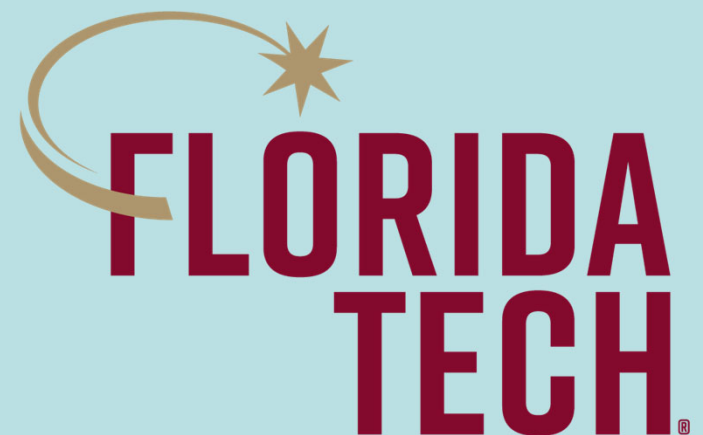


Dept. of Ocean Engineering and Marine Sciences

Rich Aronson
Head of Department



Who We Are 2024

- 86 Incoming Undergraduate Majors
 - 45 Marine Biology (52%)
 - 16 Ocean Engineering (19%)
 - 8 Environmental Science (9%)
 - 7 Meteorology (8%)
 - 5 Oceanography (6%)
 - 4 General Biology (5%)
 - 1 Sustainability (1%)

Total, all years: 228 undergraduate majors
- 55 Graduate Students, all majors, all years

Advising

- OEMS has 3 full-time staff advisors to help you register for classes, fill out forms, etc.

Rebecca Cobb



Kirstin Nelson



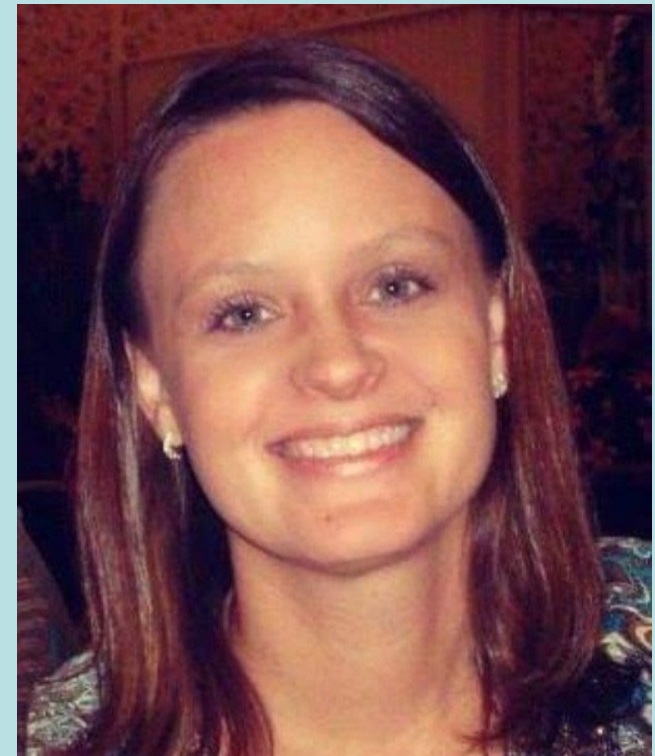
Katie Fiorina



- In addition, you have been assigned a faculty member in OEMS to be your academic mentor.
- Your academic mentor will reach out to you this semester to schedule a meeting.

Important Administrative Staff

- Jennifer Flutie, Departmental Administrator and Office Manager.
- Christine Brooks, Student Coordinator. University-level forms go through Christine.



You and Your Academic Mentor

- Sometime this semester, talk to your faculty mentor about your interests and your program.
- Your faculty mentor is here to give you advice: about your subject-areas of interest, career, paths you might want to take professionally—that sort of thing.
- Advisors will have office hours posted. Contact your advisor directly for an appointment.
- Please wait at least two weeks, until the current semester's programmatic issues are settled.

What You Get at Florida Tech

- Highest-quality education.
 - World-class ocean science and engineering.
 - Excellent grounding in chemistry.
 - Excellent grounding in mathematics.
- Small class sizes.
- Individualized attention from senior faculty.
- Advice and help from faculty on life after college, be it landing a job or finding the right graduate program.
- Opportunity and encouragement to get involved in cutting-edge research and design.

Undergraduate Research

- Courses in UG research
- Marine Field Projects and summer field courses
- Federal Work-Study program
- Some College Roll opportunities
- Opportunities for volunteer work
- Approach faculty who share your interests.

Evinrude Marine Operations Center “The Anchorage”



Mertens Marine Center at The Anchorage

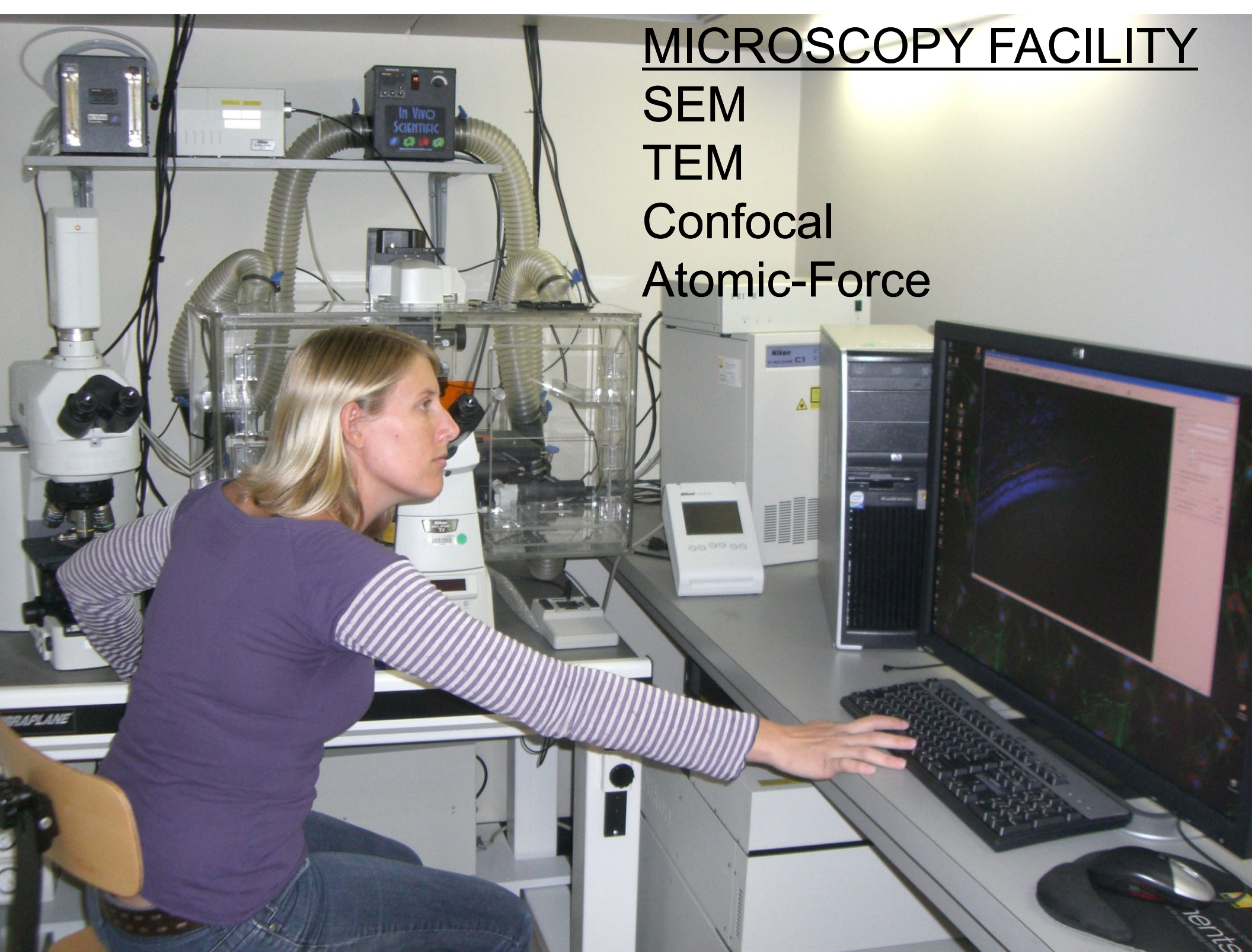


Florida Tech Aqualab



MICROSCOPY FACILITY

SEM
TEM
Confocal
Atomic-Force



Summer Field Courses

Philippines



The Amazon



Tanzania



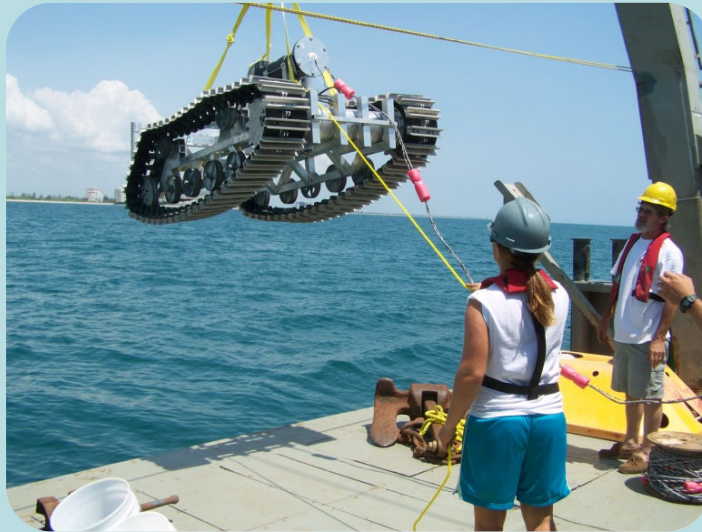
Galápagos



Summer Field Courses

- Each is a 3-credit field course.
 - Reading assignments for discussions of journal articles
 - Field projects
 - Term papers, video assignments, and other course requirements
- You can count it as an elective toward your major.
- Tuition is applied to field expenses.
- Course-fee over and above tuition varies with location.

Marine Field Projects



Marine Field Projects (MFP)

Ocean Engineering, Oceanography
Environmental Science

- Research and design projects as you move into and through your senior year.
- Ocean Engineering: summer session; option during academic year too.
- Environmental Science, Oceanography: academic year; option during summer.
- Oceanographic cruise in the summer for all students.
- MFP and field courses are highlights of a Florida Tech education!

Internships

- Faculty have excellent contacts with local industry and NGOs.
- Chat with your advisor.
- You may be able to receive credit.

Internships

Students get internships and part-time jobs at local tech companies and other organizations:

- Northrup Grumman
- L3Harris Corporation
- Rockwell Collins
- Larsen Motorsports
- Structural Composites
 - President is Florida Tech OE Alum
- Matrix Composites
 - President is Florida Tech OE Alum
- Brevard Zoo
- Marine Resources Council
- Florida Fish & Wildlife

U.S. Coast Guard's Auxiliary University Program

- Develop your skills with a view to becoming
 - A commissioned officer in the United States Coast Guard
 - A commissioned officer in the NOAA Corps
 - A professional in maritime and maritime-related industries
- Online classes, workshops, classroom instruction, patrol-cruises and other on-water activities.
- Training in navigation, SAR, boat-handling, communications, seamanship, mission planning, FEMA incident management, and more!
- The AUP is University-sponsored Student Activity
- <https://www.cgauxedu.us/>
- Contact: Mr. Bill Cox, USCGAux; wcox@fit.edu
- Informational session upcoming this month



Diving at Florida Tech



- **AAUS:** American Academy of Underwater Sciences
Requires Advanced Scuba Cert.

Contacts:

Tim Fletcher, DSO

Dr. Stephen Wood, this Department

- SCUBA Club
Anesti Vega, President
avega2020@my.fit.edu

YOUR RIGHTS

- A world-class education in a nurturing environment.
- Fair, unbiased treatment.
- Access to advisors:
 - Your First-Year Advisor OR
 - Your Student Coordinator AND
 - Your Academic Advisor
- Instruction and facilities to complete your degree in a timely fashion.
- Career advice from your Academic Advisor and others.

YOUR RESPONSIBILITIES

- Academic excellence.
- Managing your schedule and generally taking charge of your life.
- Accessing your faculty advisor.
- Timely and satisfactory completion of your assignments.

YOUR RESPONSIBILITIES

- Academic excellence.
- Managing your schedule and generally taking charge of your life.
- Accessing your faculty advisor.
- Timely and satisfactory completion of your assignments.
- Academic honesty and personal integrity.

PLAGIARISM

Copying the work of others and presenting it as one's own.

Plagiarism includes *but is not limited to:*

- Copying text verbatim from other publications without quotation marks or attribution.
- Copying text from other publications and changing a few words without attribution.
- Copying images without attribution.
- Repeating another person's concepts or ideas in a paper without attribution.
- Submitting papers purchased from websites or other sources, **including use of AI to generate assignments.**
- Copying anything from fellow students in written exams or papers (i.e., cheating).

More information is available on the Florida Tech website:

<https://www.fit.edu/policies/student-handbook/standards-and-policies/academic-honesty/>

The penalties for plagiarism are severe!

When in doubt, consult your instructor.

SOME ADVICE

- Work hard and manage your time wisely.
- Be proactive about your education.
- You will learn as much outside the classroom as inside.
- Sign up for the OEMS student listserve (see next slide).
- Check your Florida Tech email account every day. We will not send email to another account.
- Based on tuition only, the cost of your classes is **\$1.86 per minute**. Don't waste your education and your money sitting in class playing with your phone!

Departmental Listservs

- Everyone will be signed up for the main listserv: oems@lists.fit.edu
- Subscribe to more specific listservs as appropriate.

Departmental Listservs

oems@lists.fit.edu

ALL OEMS programs (the list for department wide posts, e.g. picnic). To subscribe send email:

to: sympa@lists.fit.edu

subject: subscribe oems firstname lastname

marsci@lists.fit.edu

Marine and Conservation Bio, Ecology, Aquaculture. To subscribe send email to:

to: sympa@lists.fit.edu

subject: subscribe marsci firstname lastname

oes@lists.fit.edu

Meteorology, Oceanography, Enviro Sci, Ocean Engineering. To subscribe send email (no subject):

to: oes-subscribe@lists.fit.edu

floridatechams@lists.fit.edu

Meteorology only. To subscribe send email (no subject):

to: floridatechams-subscribe@lists.fit.edu

Lists owner: Dr. Lazarus


Social Media

<https://www.facebook.com/pg/FLTechOEMS/about/>

https://www.instagram.com/oems_floridatech/?hl=en

<https://www.tiktok.com/@swoodfit>

Other social media in development



FLORIDA INSTITUTE OF TECHNOLOGY


MARINE BIOLOGICAL SOCIETY

Working for a Marine Biology that is Stimulating, Engaging and Meaningful

Department of Biological Sciences, Florida Institute of Technology, 150 West University Boulevard, Melbourne, FL 32901

MISSION

- (1) to establish a Big-Brother-Big-Sister program among marine biology majors;
- (2) to conduct workshops on how to get an internship, an undergraduate-research grant, a professional job, admitted to graduate school, etc;
- (3) to encourage marine biology majors to get engaged in research (field- and laboratory-based), marine-sciences education (INCLUDING field trips), conference presentation and scientific publication early;
- (4) to showcase undergraduate-marine biology projects and activities prospective students who visit our campus, etc.





Challenge for a New Century

Yesterday



Today



Tomorrow





PROPS CUT MORE THAN WATER








Beta Beta Beta

the national biological honor society



- Open to all students with an interest in biology and reasonable grades
- Exciting activities: camping, deep-sea fishing, snorkeling local reefs, cookouts, behind-the-scenes zoo & research center tours
- Grants (\$\$\$) to fund your research
- Quarterly journal (you can publish your research!)
- Regional and National conferences (with awards!)
- Honor cords and medallions for graduation
- Contact Dr. Glenn Miller (millerg@fit.edu)



Society of Ocean Engineers

- ▶ Open to all students with a passion for the ocean
- ▶ Discounts on memberships in SNAME (Society of Naval Architects and Marine Engineers) and MTS (Marine Technology Society)
- ▶ Attend national conferences
- ▶ Scholarships awarded, Internships, and career opportunities
- ▶ We host a round table every April with industry professionals attending
- ▶ Follow us on Instagram at **soe_florida_tech** and on Facebook at **Society of Ocean Engineers_Florida Tech**



Other Organizations

- Society for Women in Marine Science (SWMS)
 - Dr. Emily Ralston, Advisor
- American Meteorological Society
 - Dr. Steven Lazarus, advisor
- Florida Academy of Sciences
 - Dr. Richard Turner, advisor
- Astrobiology Research and Education Society (ARES)
 - Dr. Andrew Palmer, advisor
- Sailing Club
 - Dr. Ingrid Bradly, advisor
- Surfing Club
 - Dr. Robert Weaver, advisor
- Student Organization for Sustainability Action
 - Dr. Emily Ralston, advisor

FERPA

Family Education Rights and Privacy Act

Information We May Release to Parents

- Restricted because of Federal privacy laws.
- Does not matter who is paying the bills.
- Waiver forms available right here. Turn in form to us or the Registrar.

Seminar Series

- Occasional Wednesdays throughout the academic year.
- 4:00 PM – 5:00 PM, in a lecture room attached to Evans Library.
- Topics tuned to undergraduate, graduate, and faculty levels.
- Announced through the list-serve.
- Find out what's going on in research inside your Department and all over the world!

Fast-Track Program

- A fifth-year master's program.
- Minimum GPA requirement of 3.4.
- Take some graduate courses in senior year.
- Most of our fast-track programs are non-thesis (professional) M.S.
- Plan with your advisor in your junior year.

Welcome to the Family!

Rich Aronson
Head of Department

