

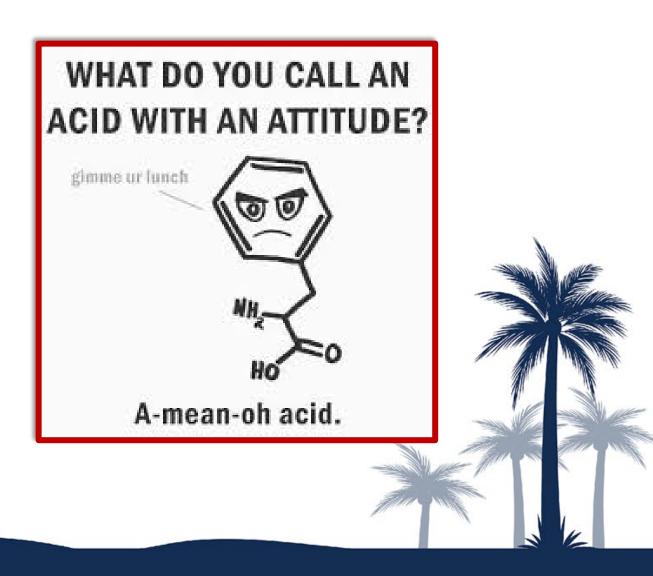


# SOAR

STUDENT ORIENTATION, ACADEMICS AND RESOURCES

FLORIDA ATLANTIC UNIVERSITY

# Why Study Science?





## Scientists.....



- Make new discoveries.
- Create the future.
- Develop excellent critical thinking skills fostered through the scientific method.
- Quench their natural love for learning.
- Work within many disciplines.
- **Are prepared to excel is some of the fastest growing career areas.**

# The College of Science has nine research Centers of Excellence

- Complex Systems and Brain Science
- Biomedical and Materials Physics
- Environmental Studies
- Molecular Biology and Biotechnology
- Geo-Information Science

- Cryptology and Information Security
- Urban and Environmental Solutions
- Harbor Branch Oceanographic Institute
- Jupiter Life Science Initiative

The College's scientists are conducting research in the fields of cancer, environmental sciences, aging, quantum optics, Alzheimer's and Parkinson's diseases, brain research, cosmology, cryptology, biomaterials, everglades restoration, developmental systems, biotechnology, drug development, geo-information science, space-time physics, hydrology.

The College of Science has collaborations with colleagues at several research institutions, including Max Planck Florida Institute and Scripps Research Institute.



## **Biological Sciences**



- BA Biological Sciences
- BS Biological Sciences
- BS Medical Biology
- Minor in Biology
- Biotechnology Certificate
- Environmental Science Certificate

#### **Biology Honors Program**

- Honors Research Thesis Pathway
- Honors Research Pathway

Max Planck Honors Program

#### **Centers of Excellence**

Florida Center for Environmental Studies-CES' mission is to conduct research, education, and community engagement activities related to coastal resilience, wetlands ecology, and energy sustainability, including developing community-wide strategies for adapting to social and environmental changes.

Center for Molecular Biology & Biotechnology Established in 1997 and the center's primary goals have been to create a strong base in molecular biology, functional genomics and related fields; maintain cuttingedge research; and to train students in this discipline to prepare them for careers in the pharmaceutical and biotechnology industry.

**Research and Focus areas:** Biotechnology, Marine Biology, Diversity and Ecology, Molecular and Cellular and Medical Biology

## Harbor Branch Oceanographic Institute



- Founded in 1971, Harbor Branch Oceanographic Institute is a world class research organization with a focus on exploring the marine environments, studying key species and understanding the connection between humans and the ocean.
- Located in St. Lucie County, the 144-acre campus along the Indian River Lagoon employs over 200 scientists, engineers, educators, staff and students. Pursuing solution-oriented research on critical issues affecting coastal zones, oceans and human well-being.
- In 2007, Harbor Branch joined Florida Atlantic University, further expanding the reach of the programs to over 100 miles along Florida's east coast.
- Offers a semester long undergraduate program for students interested in marine sciences along with summer internships and a Masters in Marine Science and Oceanography.



## Chemistry & Biochemistry

- BA Chemistry
- BS Chemistry
- BS Chemistry- Biochemistry concentration
- Pharmaceutical Technology Certificate
- Environmental Science Certificate

#### Honors in Chemistry Program

- Direct participation in cutting-edge research experiences
- Increased interaction with Faculty members of the Department
- Completion of the undergraduate degree with an upperdivision Honors distinction



**Research and Focus areas:** Environmental & Analytical, Material Science, Synthetic Organic Chemistry, Biophysical & Computational Chemistry



## Geosciences



- BA Geography
- BS Geography
- Minor in Geography
- BA Geology
- BS Geology
- Minor in Geology
- BS Climate Change
- Geographic Information Science Minor
- Environmental Science Certificate

# **Center for Geographic Information Analysis and Modeling**

Serves as a synergetic avenue for the pursuit of excellence in research, education, and services in geographic information technologies.





Health Science and Exercise Science & Health Promotion

- BA Health Science
- BS Exercise Science & Health Promotion

**Health Science Concentrations:** (Women's study, Science, Public/Global/Environmental, and Behavior and Mental Health)

**Exercise Science Concentrations:** Exercise Physiology and Pre-Physical Therapy and Occupational Therapy (Pre-PT/OT)



## Mathematical Sciences



- BA Mathematical Sciences
- BS Mathematical Sciences
- Minor in Math
- Minor in Statistics
- BS Data Science: Natural Sciences
- Certificate in Statistics
- Certificate in Actuarial Science
- Honors Program in Mathematical Sciences

## **Center for Cryptology and Information Security**

The mission of the Center is to promote and advance the state of knowledge, methodology, and training in information security.



**Research and Focus Areas:** Actuarial Science, Statistics, Cryptography, Analysis and Applications, Algebra and Combinatorics, and Data Science: Natural Science Concentration

# **Physics**

- BA Physics
- BS Physics
- Minor in Physics



#### **Center for Biomedical and Materials Physics**

Established in 1989, originally as the Alloy Research Center, this center provides a focus for collaborations to facilitate studies in biological physics and material physics.

#### **FAU Astronomical Observatory**

Is housed under a four meter diameter dome on the Boca Raton campus of Florida Atlantic University. We welcome students, faculty, staff and members of the general public to join our scheduled observations or our public viewing events. Our telescope is mounted on a small platform, at the top of stairs, looking out of the roof of our building, over Boca Raton, to space and beyond!

**Research and focus areas:** Astrophysics, Classical and Quantum Gravity and Medical Physics



## Psychology and Neuroscience & Behavior

- BA Psychology
- BS Neuroscience & Behavior
- Minor in Psychology
- Applied Mental Health Certificate

#### Honors Program in Psychology

- Honors Seminar
- Honors Critical Questions in Psychology
- Honors Thesis
- Directed Independent Research

#### **Center for Complex Systems and Brain Sciences**

Established in 1985 this center brings together scientists from different backgrounds including laboratory biologists, psychologists, applied mathematicians and theoretical physicists.

The center is dedicated to understanding the principles and mechanisms that underlie complex behavior. From the microscopic level of cells and organelles to the grand scale of human interaction, our mission is to bring together multiple disciplines and backgrounds such as theoretical physics, complexity science, cognitive psychology, laboratory biology, applied mathematics and philosophytackle the most profound questions of brain, the mind, consciousness, and behavior.

**Research Areas:** Cognitive Psychology, Developmental Psychology, Behavior Neuroscience, and Social/Personality Psychology



# Urban Design & Urban and Regional Planning

- Bachelor of Urban Design
- Bachelor of Urban and Regional Planning

Honors in Urban and Regional Planning & Urban Design

- Capstone Thesis
- Capstone Research

## **Center for Urban and Environmental Solutions**

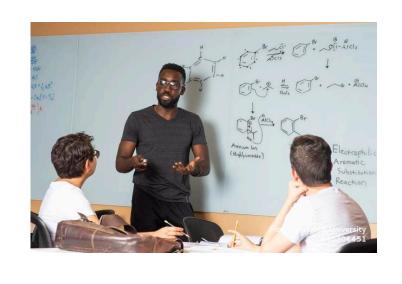
Established in 1972, the Center for Urban and Environmental Solutions (CUES) is dedicated to helping communities and decision-makers plan for urban and environmental issues through partnerships, education, and research throughout Florida and beyond. The Center works with policy-makers and the public in the pursuit of options for managing growth while preserving natural systems, promoting a strong economy, and planning livable communities.

Research Areas: Sustainability Planning and Policy



## Opportunities and Services in the College

- Science internships
- Science Career Liaison
- S.O.A.R in 4 (FTIC students)
- Research opportunities (DIR or DIS)
- Continuing Education
- Science Clubs and Organizations
- Science Scholarships
- Math Learning Center

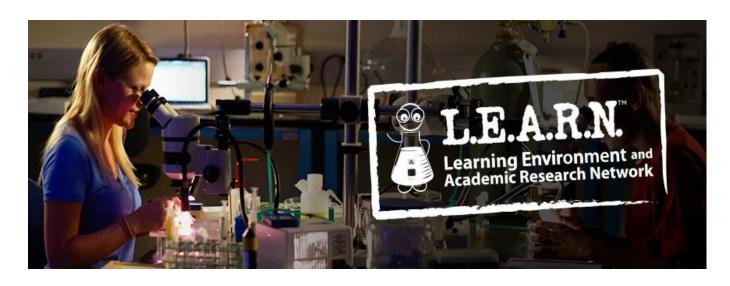






### **LEARN Program**





Research Scholarship Program for Science, Technology, Engineering, and Math (STEM) Students



# F-LEARN (Freshman)

## What's in it for you?

- Structured help adjusting to FAU
- \$500 scholarship
- Priority registration
- 2 Introduction to Research courses
- Mentorship and a support network of faculty and peers
- Academic, social, and community events
- Leadership and networking opportunities
- Hands-on research experience in your field of interest

## **Eligibility**

- Incoming from high school
- Have a declared major in the College of Science or College of Engineering and Computer Science
- Pursue a Bachelor of Science (B.S.) degree
- High school GPA of 3.6 or higher
- SAT score of 1100 or higher or ACT score of 22 or higher







## Applications for the 2022-2023 cohort are open!





If you are interested in applying for the LEARN Program, scan the QR code above for the application. For more information email <a href="mailto:learn@fau.edu">learn@fau.edu</a> or visit our office in General Classroom South, Room 212F





# **Pre-Health Professions Program**

For students interested in medical, dental, veterinary, and other professional training in the health sciences (other than Nursing).

We assist in preparing students to matriculate into graduate professional schools.

**Requirements for Pre-health Professions Advising No Admission Requirements** 

- Advising for this program takes place in the Pre-Health Professions Office (SE 308).
  Students must maintain a 3.0 GPA to continue pre-health advising.
  Students are expected to participate in shadowing and volunteering (100 minimum) as part of pre-health advising program.



# Components of the Pre-Health Professions Program



- ✓ First Year Interest Groups
- ✓ Pre-Health Courses:
  - Current issues in Biomedicine
  - Medical Internship for shadowing experience
- ✓ Pre-Health Professions Week



- ✓ Mock medical school interview with Pre-Health Professions Committee
- √ "Wall of Fame" recognition for accepted students
- ✓ Future Doctors reception for all students accepted into medical, veterinary, or dental school.
- ✓ MCAT prep course taught by FAU Science faculty.

# First-Year Interest Groups (FIGS)

### In a FIG, you:

- Have a seminar class that led by faculty and advisors from your specific college.
- Have an opportunity to build relationships within your college as soon as classes begin.
- Take a 1-credit course with 24 other students who share similar majors.
- Get the inside scoop on what it takes to excel in your major.
- Have an opportunity to build a community that makes this large research university feel like home.

# **College of Science and Pre-Health FIGS:**

- Exploring Science
- Exploring Exercise Science & Health Promotions
- Pre-Health Professions



## **ISC1430 Current Issues in Biomedicine**



#### **Overview**

- The course consists of focused, engaging and accessible online material designed to assist student with understand topics to be discussed during informal seminars.
- Informal seminars support online material and provide the opportunity to learn about current research topics. Online topics will vary depending on current scientific issues but could include the following: Human Genomics; Biomedical Ethics, Marine Pharmacology, Public Health, etc.
- This course provides an opportunity to engage in many areas of biomedical science research and controversial issues in the medical field.
- This course will provide a student the opportunity to learn more about the many healthcare career fields and activities related to those fields.

#### **General Information**

Requirements:

You must be freshmen or sophomore

1 credit

Friday's 12:00-12:50 online live lecture

# To learn more about what the college has to offer.



### Contact

Phone: 561-297-3000

Email: cosadvising@fau.edu

### Website

www.science.fau.edu

### Social Media









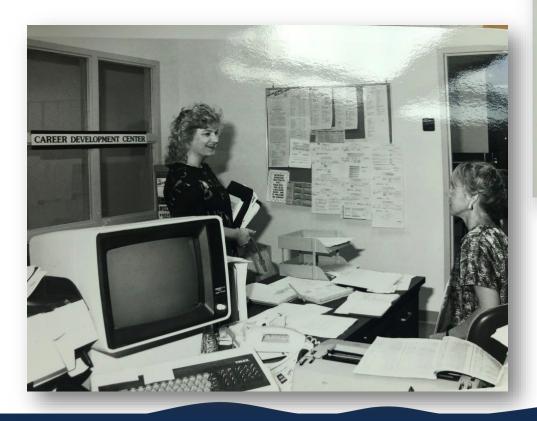


## **FAU Career Center**





# How It Started Career Center, 1965







# How It's Going Career Center, 2022









# Things To Do Before Classes Start ... To Be Career Ready





# 1. Complete the Career Readiness Module









Scan here to enroll in Kick Off Your Future The Kick-Off Your Future Canvas training module is designed to provide new

FAU students a great foundation to build toward your futures. Our goal is to

connect students with high-quality career information to allow you to have

success at FAU and beyond.









The new interactive tool will allow users to explore data at the System level and by individual institution, including information on salary, graduate employment, student debt, and additional educational opportunities.



#### **EARNINGS OVER TIME**

Compare post-graduate earnings for each academic program at 1,5, and 10 years after graduation



#### **BEYOND THE BACHELOR'S**

Explore earnings potential over time of pursuing additional education beyond the bachelor's degree



#### TYPICAL LOAN AMOUNTS

Examine the proportion of students in the university system who graduate with student loan debit



#### **COMPARE EARNINGS**

Compare low, median, and high wages of multiple programs simultaneously



#### **FARNINGS BY MAJOR GROUP**

View ranges for post-graduation earnings in a single display for quick comparison



#### LOANS OVER TIME

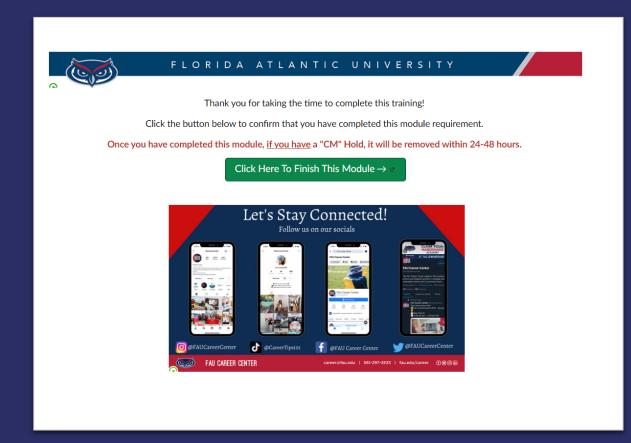
Explore the projected monthly student loan debt payments



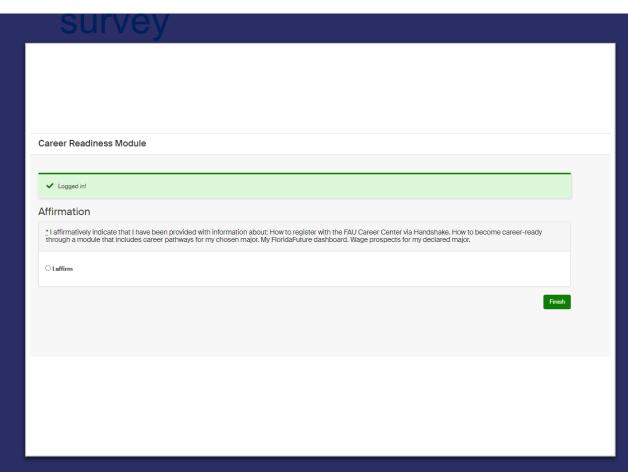


## In order to complete the module, there are 2 final steps:

1. Click the green button



2. Complete the 1 question



# 2. Claim your Handshake Account

FAU CAREER CENTER

#HIREFAU



# See how it handshake can help build toward your future.



Search for full or part-time job opportunities



Find an internship on and off campus



Register for career events



Sign-up for interviews to meet employers



Schedule appointments for career services



# 3. Still Deciding?Sign up for SLS 1301



### 1-credit elective course

This class provides an overview of career development theories and decision-making skills for career/life planning.

### Focuses on:

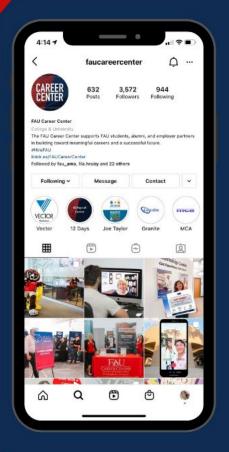
- ✓ self-assessment
- √ deciding a major
- ✓ exploring career options
- ✓ developing an action plan

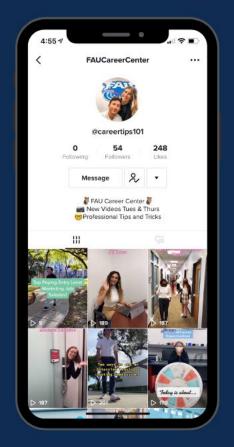
All to help you achieve your career goals!



# Let's Stay Connected!

Follow us on our socials













@CareerTips101



@FAU Career Center









**FAU Career Center Presents** 

## VIRTUAL ON-CAMPUS JOB & INTERNSHIP FAIR

Tuesday, July 12 from 12 p.m. - 3 p.m. Premier Virtual (online) Register on Handshake fau.joinhandshake.com/career\_fairs

## **Contact Information**

#### Email

- UAS <u>advisingservices@fau.edu</u>
- Science- cosadvising@fau.edu
- Career Center <u>career@fau.edu</u>

#### Web

- UAS www.fau.edu/uas
- College of Science Advising www.science.fau.edu/student services/advising.php
- Career Center <u>www.fau.edu/career</u>

#### Phone

- UAS 561-297-3064
- College of Science Advising 561-297-3700
- Career Center 561-297-3533

Curriculum Sheets: www.fau.edu/uas





### **APPOINTMENTS**

In-person at the Boca Raton, Davie and Jupiter campuses Virtual and evening sessions available

### **DROP-IN CAREER COACHING**

No appointment necessary

Monday - Friday Virtual 9 a.m. - 1 p.m.
In-person at the Boca Raton campus 1 - 5 p.m.

## **BUILD TOWARD YOUR FUTURE**

### MEET WITH A CAREER COACH FOR HELP WITH:



Deciding a major/career



Developing job and internship search strategies



Building résumés, cover letters, and LinkedIn profiles



Connecting and networking with employers through Handshake



Planning and applying for graduate and professional school



Preparing and practicing for interviews



Getting professional headshots and attire

SCHEDULE AN APPOINTMENT TODAY AT FAU.JOINHANDSHAKE.COM









# University Advising Services (UAS)





#### **READ**

**Email** is FAU's main form of communication. All emails will be sent to your FAU email. Please check your email daily!

#### Expect emails from your academic advisor for:

- ✓ Spring advising
- ✓ Midterm grades
- ✓ Important updates or information



### **READ**



**Your syllabi** will provide an outline for assignments, grading, exams, instructions, and instructor contact information.

It is expected that you review your syllabi at the beginning and during the semester.

Your syllabi can be found on Canvas.

### READ



Please review your advisor's comments on **EZ Advising** form and all emails in your FAU

email in box

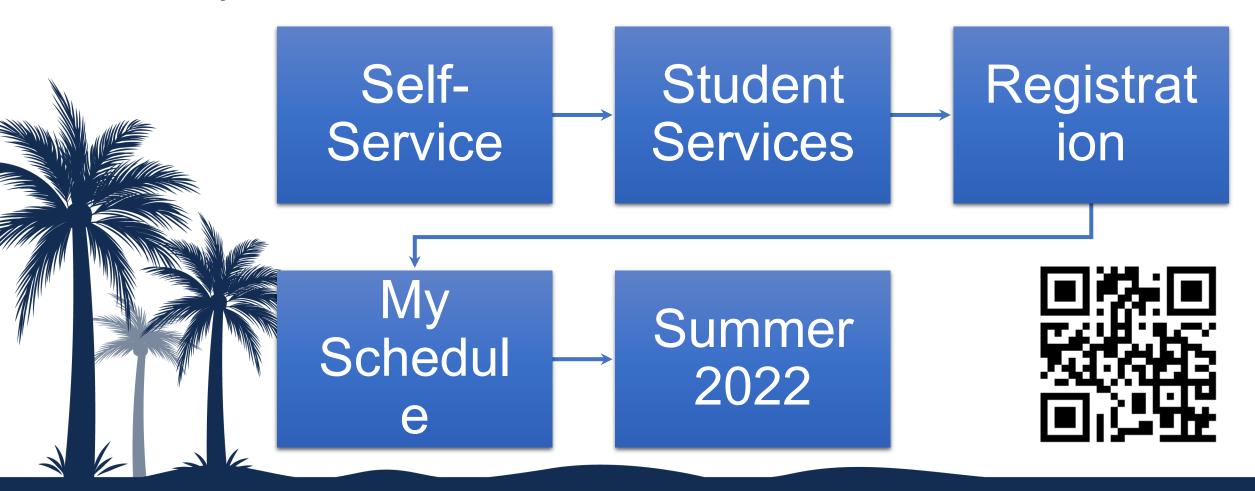
- Do you still need to send important documents to FAU?
  - □ AP / IB / AICE / Dual Enrollment / Transfer credits?

## **KNOW What Is Happening**& When





#### Find your schedule





#### Summer 2022 Admission Pathways

- Several different pathways for <u>Summer</u> admission to FAU
  - Jump Start
  - Academic Success Pathway
  - Engineering Bridge Program
- FAU Summer Pathways Website: <a href="https://www.fau.edu/uas/summerpathways.php">https://www.fau.edu/uas/summerpathways.php</a>
- Students in each of these three pathways must **complete** 6 credit hours in the Summer Term 3.
- Summer Term 3 begins June 25<sup>th</sup>. If you have not completed EZ Advising or have not fully registered for 6 credits in Summer Term 3, you must complete this ASAP.



#### **IMPORTANT DATES**

Class Begin	August 20 <sup>th</sup>		
Last day to Drop/Add	August 26 <sup>th</sup>		
Last day to Pay Tuition	August 29 <sup>th</sup>		
Start to meet with your advisor	AFTER Labor Day (September 5th)		
FAU Internship and Part-Time Job Fair	September 2022		
Last day to Withdraw	October 28 <sup>th</sup>		
Registration	It's Happening! Get Registered NOW!		
Final Exams	December 8 <sup>th</sup> – December 14 <sup>th</sup>		
Semester Ends	December 16 <sup>th</sup>		



# Use Your Tools & Resources





#### **Success Network**



Your Success Network connects you to your support system- your academic advisor, professors, tutors, financial aid advisor, and many other support professionals

- Click for a Success Network Tutorial (http://www.fau.edu/uas/videos/video\_library/Success\_Network\_Video.ocap.mp4)
- The contact information for each assigned staff member can be found once you log into your Success Network
- You will log into Success Network to schedule appointments with your academic advisor at University Advising Services
- UAS Walk-In Advising through your Success Network during the 1<sup>st</sup> week of class!



## **University Advising Services**



**University Advising Services** will be your primary resource for academic advising, course scheduling, and guidance during your first and second year at FAU. UAS can assist with:

- Course advising
- Academic policies and information
- Changing and/or declaring majors
- Making appropriate referrals to important resources on campus

## Intellectual Foundations Program (IFP)





## What is the Intellectual Foundation Program (IFP)?

- Your core curriculum/basics
- All majors must complete the IFP
- There are six (6)segments of the IFP
- ❖ The requirements for each section varies depending on your major
- You will complete a minimum of six (6) credits in each segment (requirements vary by major)
- Segments with "A" and "B" sections have a requirement that one course must be taken in section "A"

Review the curriculum sheet for your major and speak with your academic advisor for specific major information: <a href="http://www.fau.edu/uas/curriculum.php">http://www.fau.edu/uas/curriculum.php</a>



### **Mathematics**

6 credit hours Required – C or better\*\*
At least one (1) course must be from Group A

#### **Group A**

MAC 1105	College Algebra				
STA 2023	Introduction to Statistics (only for Health Sciences and Geosciences majors)				
MAC 2311	Calculus with Analytic Geometry 1 (4 credits)				
or any mathematics course for which one of the above courses is the direct prerequisite					

#### Group B

MAC 1147	Precalculus Algebra & Trigonometry (4 credits)
MAC 2233	Methods of Calculus
MAC 2241	Life Science Calculus 1 (4 credits)
MAC 2312	Calculus with Analytic Geometry 2 (4 credits)

<sup>\*\*</sup>FRESHMEN -- Math courses will be determined by your SAT, ACT and high school math grades.



<sup>\*</sup> The most universal Math class for science majors.

#### **Society and Human Behavior**

6 credit hours required – At least one (1) course must be from Group A Group A

AMH 2020 & D United States History Since 1877 – helps with state of Florida Civic Literacy Requirement

\_\_ ANT 2000 & D Introduction to Anthropology (WAC)

ECO 2013 Macroeconomic Principles

\_\_ POS 2041 Government of the United States – helps with state of Florida Civic Literacy Requirement

PSY 1012 General Psychology – recommended for all majors (Req'd. Neuro, Psych, Health Sciences)

SYG 1000 Sociological Perspectives – recommended for all majors (Rec'd. Neuro, Psych, Health Sciences)



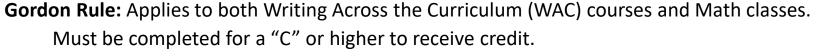
#### FAU Civic Literacy Requirement

To graduate from FAU with any degree, students must meet the Florida Civic Literacy statue by completing **both a course and exam**.

Courses	Civic Literacy Exam Requirement	
AP, AICE, or IB U.S. Government or History credit	Requirements change based on credit type; consult with your Academic Advisor	
50 or higher on American Gov. CLEP exam	Civic Literacy Requirement is met	
Passing grade in POS 2041 (Government of the U.S.) or AMH 2020 (U.S. History since 1877)	Must take Exam and score 60 or higher: U.S. Citizenship and Immigration Services Naturalization Test or Florida Civic Literacy Examination (FCLE)	



#### **Policies to Know**



Repeat Surcharge – 3x \*\*\*

\*\*\* Limitation on Repeated Courses for Science Majors.

No course may be taken more than twice, whether at FAU or at any other institution, without the permission of the student's advising office. Consult with an advisor to discuss options in the case that you cannot complete a course within 2 attempts.



### Withdrawal Policy (W Policy)

Undergraduate students may not withdraw (with a grade of "W" or "ZR") from more than 2 courses at the lower-division level (1000- and 2000-level courses) and from more than 3 courses at the upper-division or higher level (3000- and 4000-level courses)

Always speak with your academic advisor before making any decision to withdraw from a course.



## Withdrawal Policy (W Policy)



Current Undergraduate Program Withdrawal Counts: You may not drop course(s) more than the Limitations on Number of Withdrawals policy.

Course Level	Withdrawal Limit		Future Withdrawals Allowed
Lower-Division Level	2	0	2
Upper-Division Level	3	0	3



#### Writing Across the Curriculum (WAC)

ALL students must complete four (4) WAC courses. Must earn a "C" or better.

WRITTEN COMMUNICATIONS

**ENC 1101** 

ENC 1102 or allowable substitute: ENC 1939 or HIS 2050

**SOCIETY AND HUMAN BEHAVIOR** 

ANT 2000 & D Introduction to Anthropology

**GLOBAL CITIZENSHIP** 

WOH 2012 & D History of Civilization I

**HUMANITIES** 

Group A PHI 2010 & D Introduction to Philosophy

Group B

Interpretation of Fiction Interpretation of Poetry Interpretation of Drama Interpretation of Creative Non-Fiction **LIT 2010** LIT 2030 LIT 2040

LIT 2070

\*Additional WAC courses may be available. Please speak with your advisor







## Foreign Language

ARA 1120/1121
FRE 1120/1121
GER 1120/1121
HBR 1120/1121
ITA 1120/1121
JPN 1120/1121
LAT 1120/1121
SPN 1120/1121
Beginning Arabic I/II
Beginning French I/II
Beginning German I/II
Beginning Hebrew I/II
Beginning Italian I/II
Beginning Japanese I/II
Beginning Spanish I/II

#### **IMPORTANT TO NOTE:**

- Foreign Language is a graduation requirement for ALL science majors. This is different from your high school foreign language for college admission requirement.
- If you have taken 2 years of a language in high school, the Languages & Linguistics Departme requires you to start with the 1121 level.
- > All courses are 4 credits
- > CLEP Option Available speak with your advisor

#### **Learning Outcomes**

#### You have ...

Learned about the majors, minors, certificate available in the college.

Learned more about what the college of science offers.

Learned about the career center and its services.

Understood the purpose of academic advising.

Identified the FAU personnel in your Success Network

Understood the IFP registration options for the College of Science



#### **Contact Information**

#### **Email**

UAS - <u>advisingservices@fau.edu</u> Career Center – <u>career@fau.edu</u>



UAS - <u>www.fau.edu/uas</u> Science - <u>www.science.fau.edu</u> Career Center - <u>www.fau.edu/career</u> OURI - www.ouri.fau.edu

#### Phone

UAS - 561.297.3064 Science - 561.297.3700 Career Center - 561.297.3533



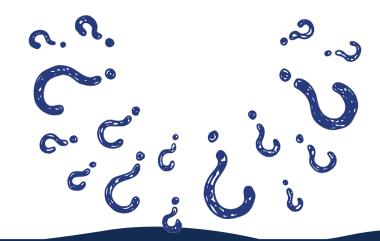


University Advising Services - FAU





## Questions





#### Your College Breakout Session is complete!

Please head back to your small group Parliament breakout rooms. To get there, use the same link that you used to access your Parliament group earlier.

Enjoy the rest of your day SOARing with us!

