### **Physics Advising**



This is general advising information for Physics majors. Please consult with your academic advisor regarding any questions or concerns you have about major requirements and your specific situation.

Academic Advising & Resource Center https://thcasadvising.ecu.edu/



# **Physics Advising Team**



**Dr. Mark Sprague**Assistant Chair for Undergraduate
Studies



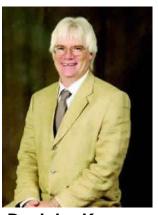




Dr. Martin Bier



**Dr. Regina DeWitt** 



Dr. John Kenney



Dr. Steven Wolf

#### Requirements B.S. Physics

- General Education (40 s.h.)
  - CHEM 1150/1151 General Chemistry I
  - CHEM 1160/1161 General Chemistry II
  - MATH 1065 College Algebra
- Concentrations (29-41 s.h.)
  - Professional Concentration
  - Research Concentration
- Cognates (18-19 s.h.)
  - Professional Concentration
  - Research Concentration
- General Electives
- TOTAL: 120 s.h.

See program details on Physics web site https://physics.ecu.edu/undergraduate-programs/



## **Explore Minors or Double Majors**

#### Minor

- Aerospace Studies Minor
- African and African American Studies Minor
- · Alcohol and Drug Studies Minor
- Anthropology Minor
- · Architectural Design Technology Minor
- · Art History Minor
- Art Minor
- · Asian Studies Minor
- Atmospheric Science Minor
- Biology Minor
- Business Administration Minor
- Chemistry Minor
- Classical Studies Minor
- Coastal and Marine Studies Minor
- · Communication, Communication Studies Minor
- · Comparative Government and International Relations Minor
- · Composite Natural Science Minor
- Computer Science Minor
- · Construction Management Minor
- · Creative Writing Minor
- Criminal Justice Minor
- · Disability Studies Minor
- · Distribution Technology: Merchandising Minor

- · Economics Minor
- · English Minor
- · Environmental Health Minor
- · Ethnic Studies Minor
- · Exercise and Sport Science Minor
- · Film Studies Minor
- · Forensic Science Minor
- · French Minor
- · Gender Studies Minor
- · Geography Minor
- Geology Minor
- · German Minor
- · Gerontology Minor
- · Great Books Minor
- · Hispanic Studies Minor
- · History Minor
- Hospitality Management Minor
- Human Development and Family Science Minor
- Indigenous Peoples of the Americas Minor
- · Industrial Technology Management Minor
- Information and Computer Technology Minor
- Interior Design Minor
- · International Studies Minor
- · Leadership Studies Minor
- · Linguistics Minor
- Mathematics Minor
- Mechanical Design Technology Minor

- Medieval and Renaissance Studies Minor
- · Merchandising Minor
- · Military Science Minor
- Multidisciplinary Minor
- Music Minor
- · Neuroscience Studies Minor
- · North Carolina Studies Minor
- · Nutrition Minor
- · Philosophy Minor
- · Physics Minor
- · Planning Minor
- Political Science Minor
- · Psychology Minor
- Public Administration Minor
- Public History Minor
- Recreation and Park Management Minor
- · Recreational Therapy Minor
- · Religious Studies Minor
- Russian Studies Minor
- · Science Minor
- · Security Studies Minor
- Sociology Minor
- · Speech and Hearing Sciences Minor
- · Sports Studies Minor
- Statistics Minor
- Theatre Design and Production Minor



## Sample 4 Year Plan

Thomas Harriot College of Arts & Sciences B.S. in Physics - Professional Concentration

Please note that this is a **recommended** sequence.

Check catalog for prerequisites.

Course availability may vary from semester to semester.

	, , , , , , , , , , , , , , , , , , , ,		
	FRESHMAN YEA		
Fall Semester		Spring Semester	
ENGL 1100 (WI)	3	CHEM 1160, 1161	3,1
Social Science	3	Social Science	3
MATH 1083	3	Fine Art	3
CHEM 1150, 1151	3,1	MATH 2171	4
Humanity	3	HLTH 1000	2 16
			16
	16		
	SOPHOMORE YE	EAR	
PHYS 2350, 1251	4,1	PHYS 2360, 1261	4,1
MATH 2172	4	MATH 2173	4
ENGL 2201 (WI)	3	Free Elective	3
Social Science	3	Free Elective	3
KINE 1000	1		
	16		15
	JUNIOR YEAR	₹	
PHYS 3416	3	PHYS 3417	3
MATH 4331	3	PHYS Elective	3
Humanity or Fine Art	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
	15		
			15
	SENIOR YEAR	₹	
PHYS Elective	3	PHYS 4700 and 4701	3,0
PHYS Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3		
	15		12
		Total hours completed	120

#### Thomas Harriot College of Arts & Sciences B.S. in Physics - Research Concentration

Please note that this is a recommended sequence.

Check catalog for prerequisites.

Course availability may vary from semester to semester.

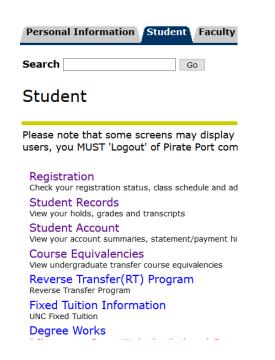
	FRESHMAN YEA	AR	
Fall Semester		Spring Semester	
ENGL 1100 (WI)	3	CHEM 1160, 1161	3,1
Social Science	3	Social Science	3
MATH 1083	3	Fine Art	3
CHEM 1150, 1151	3,1	MATH 2171	4
Humanity	3	HLTH 1000	2
			16
	16		
	SOPHOMORE YE	AR	
PHYS 2350, 1251	4,1	PHYS 2360, 1261	4,1
MATH 2172	4	MATH 2173	4
ENGL 2201 (WI)	3	Free Elective	3
Social Science	3	Humanity or Fine Art	3
KINE 1000	1		
	16		15
	JUNIOR YEAR	1	
PHYS 3416	3	PHYS 3417	3
MATH 4331	3	PHYS 3560	3
Additional Gen Ed	3	PHYS Elective	3
Free Elective	3	Free Elective	3 3 3 3
Free Elective	3	Free Elective	3
	15		15
DUNG 4000	SENIOR YEAR		
PHYS 4226	3	PHYS 4700, 4701 (WI)	3,0
PHYS 4326	3	PHYS 4120	3
PHYS Elective	3	PHYS 4410	3
Free Elective	3	Free Elective	3
Free Elective	3		
	15		12
		Total hours completed	120

### **Advanced Placement Credit**

Placement Test	Score	ECU Course	Credits
American Govt. & Pol.	3, 4, 5	POLS 1010	3
Art History	3, 4, 5	ART 1906, 1907	6
Biology	3	BIOL 1100, 1101	4
Biology	4, 5	BIOL 1100-01/1200-01	8
Calculus AB (AB subgrade rec. the same credits)	3, 4, 5	MATH 2171	4
Calculus BC	3, 4, 5	MATH 2171, 2172	8
Chemistry	3	CHEM 1150, 1151	4
Chemistry	4, 5	CHEM 1150-51/1160-61	8
Comparative Gov't & Politics	3, 4, 5	POLS 2010	3
Computer Science A	3, 4, 5	CSCI 2610	3
Computer Science Principles	3, 4, 5	CSCI 1000	3
Economics, Macro	3, 4, 5	ECON 2133	3
Economics, Micro	3, 4, 5	ECON 2113	3
English Lang & Comp	3	ENGL 1100	3
English Lang & Comp	4, 5	ENGL 1100, 2201	6
English Lit & Comp	3	ENGL 1100	3
English Lit & Comp	4, 5	ENGL 1000, 1100	6
Environmental Science	3, 4, 5	BIOL 1060	5
French Language	3, 4, 5	FREN 1001-02/2003-04	12
German Language	3. 4. 5	GERM 1001-02/2003-04	12

Geography, Human	3, 4, 5	GEOG 1000	3
History, American	3, 4, 5	HIST 1050, 1051	6
History, European	3, 4, 5	HIST 1030, 1031	6
History, World	3, 4, 5	HIST 1030, 1031	6
Italian Language & Culture	3, 4, 5	ITAL 1001-02/2003-04	12
Latin Language	3, 4, 5	LATN 1001-02/2003-04	12
Music Theory (non-majors only)	3, 4, 5	MUSC 1008	3
Physics 1 Algebra-Based	3, 4, 5	PHYS 1250, 1251	3, 1
Physics 2 Algebra-Based	3, 4, 5	PHYS 1260, 1261	3, 1
Physics C: Mechanics	3, 4, 5	PHYS 2350, 1251	4, 1
Physics C: Elec & Magnetism	3, 4, 5	PHYS 2360, 1261	4, 1
Psychology	3, 4, 5	PSYC 1000	3
Spanish Language	3, 4, 5	SPAN 1001-02/2003-04	12
Statistics	3	MATH 2228	3
Studio Art, 2-D Design	3, 4, 5	ART 1005	3
Studio Art, 3-D Design	3, 4, 5	ART 1015	3
Studio Art, Drawing	3, 4, 5	ART 1020	3

## College Transfer Credit



Select "Course Equivalencies"
Select "State"
Select "Institution"

#### Course Equivalency

TRANSFER CREDIT ACCEPTED BY EAST CAROLINA UNIVERSITY					
		Pitt CC		East Carolina University	
Tran	sfer Course	Transfer Course Title	ECU C	Course ECU Title	Credit Hours
ACA	122	College Transfer Success	COAD	1XXX College Transfer Success	1
ACC	120	Financial Accounting	ACCT	2401 Financial Accounting	4
ACC	121	Managerial Accounting	ACCT	2521 Managerial Accounting	4
AHR	111	HVACR Electricity	ITEC	1XXX HVACR Electricity	3
AHR	112	Heating Technology	ITEC	1XXX Heating Technology	4
AHR	113	Comfort Cooling	ITEC	1XXX Comfort Cooling	4
AHR	114	Heat Pump Technology	ITEC	1XXX Heat Pump Technology	4
AHR	120	HVAC Maintenance	ITEC	1XXX HVAC Maintenance	2
AHR	211	Residential System Design	ITEC	2XXX Residential System Design	3
AHR	212	Advanced Comfort Systems	ITEC	2XXX Adv Comfort Systems	3
AHR	213	HVACR Building Code	ITEC	2XXX HVACR Building Code	2
AHR	240	Hydronic Heating	ITEC	2XXX Hydronic Heating	2
ALT	120	Renewable Energy Tech	ITEC	1XXX Renewable Energy Tech	3
ALT	220	Photovoltaic Sys TEch	ITEC	1XXX Photovoltaic Sys Tech	3
ALT	240	Wind and Hydro Power Sys	ITEC	1XXX Wind and Hydro Power Sys	3
ALT	250	Thermal Systems	ITEC	2XXX Thermal Systems	3
ANT	160	Introduction to Anthropology	ANTH	1000 Intr Anthropology	5
ANT	161	Societies Around the World	ANTH	2010 Soc Around World	5
ANT	210	General Anthropology	ANTH	1000 Intr Anthropology	3
ANT	220	Cultural Anthropology	ANTH	2200 Intro to Cultrl Anth	3
ANT	221	Comparative Cultures	ANTH	2010 Soc Around World	3
ANT	230	Physical Anthropology	ANTH	2015 Intro Biolog Anth	3
ANT	230A	Physical Anthropology Lab	ANTH	2016 Intro Biolog Anth L	1
ANT	240	Archaeology	ANTH	3077 Archaeology	3
ΔΝΤ	2404	Archaelogy Field Lah	ΔΝΤΗ	2XXX Archaeology Field Lah	1

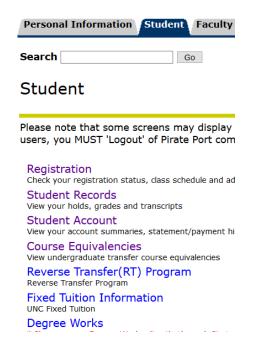


## **Academic Transcript**

Attempt Hours

12.000

**Current Term:** 



Select "Student Records"
Select "Academic Transcript"
Submit

TRANSF	FER CREDIT ACCE	PTED BY INSTITUTION -Top-				
201830:	: Nash CC					
	Course	Title	Gra	de	Credit Hours	Quality Points
COMM	2410	Public Speaking	TA		3.00	0
MATH	1065	College Algebra	ТВ		3.00	0
MATH	1083	Introduction to Functions	ТВ		3.00	0
MATH	1XXX	College Algebra	ТВ		1.00	0
MATH	1XXX	Precalclus Trig	ТВ		1.00	0
PSYC	1000	Intro Psyc	TC		3.00	0
		Attempt Hours Passe	d Hours Far	ned Hours	GPA Hours	Quality Points GP
			d Hours Lui			
Current	Term:	14.000	14.000	14.000		
TRANSFE		-				
	ER CREDIT ACCEP  AP Credits	14.000		14.000		0.000
FRANSFE	ER CREDIT ACCEP  AP Credits	14.000 TED BY INSTITUTION -Top-	14.000	14.000	0.000	0.000
FRANSFE	E <b>R CREDIT ACCEP</b> AP Credits <b>Course</b>	14.000  TED BY INSTITUTION -Top-  Title	14.000 Grad	14.000	0.000	0.000
FRANSFE	ER CREDIT ACCEP AP Credits Course 1060	TED BY INSTITUTION -Top-  Title Environmental Biology	14.000 Grade TP	14.000	0.000  Credit Hours 4.000	0.000
DOOOOO: / Subject ( BIOL : BIOL :	ER CREDIT ACCEP  AP Credits  Course  1060 1061	TED BY INSTITUTION -Top-  Title Environmental Biology Environmental Biology Lab	14.000 <b>Grad</b> TP  TP	14.000	0.000  Credit Hours  4.000  1.000	0.000

Passed Hours

12.000

Earned Hours

12.000

GPA Hours Quality Points GPA

0.000

0.000

## Fall Registration Advice

- Math 1065 or 1083 or 2171 (depending on math placement)
- Chemistry 1150 & 1151 General Chemistry I (depending on math placement)
- Add any general education courses including
  - English 1100
  - Social Sciences
  - Humanities
  - Fine Arts
  - HLTH 1000 (this closes quickly--you have plenty of time to take this)
  - KINE 1000 (closed—you have plenty of time to take this)

## Math Placement

SAT Math: (test March 2016 & AFTER)	ACT Math:	High School GPA *unweighted*	COURSE:
0-560	0-22	2.95 and below	MATH 0045* remedial (in state students)
0-300	0-22	2.95 and below	MATH 0001*remedial (out-of-state students)
570 or higher	23 or higher	2.96 or higher	MATH 1065 College Algebra
600 or higher	25 or higher	N/A	MATH 1083 Introduction to Functions
650 or higher	28 or higher	N/A	MATH 2171 Calculus

#### General Education: Social Sciences

#### Must have 3 courses (from 2 different disciplines)

AAAS 1000 Intro to African & African American Studies (DD)

ANTH 1000 Intro to Anthropology (GD)

ANTH 1001 Aliens, Atlantis and Archaeology

ANTH 1050 Global Understanding (GD)

ANTH 1200 (001) Anthropology of Monsters, Zombies, and Vampires

ANTH 1200 (002) Anthropology of War & Violence

ANTH 2000 Archaeology Around the World

ANTH 2005 Environmental Anthropology

ANTH 2010 Societies Around the World (GD)

ANTH 2200 Cultural Anthropology (GD)

ANTH 2250 Race & Ethnic Relations (DD)

COMM 1001 Intro to Communications

COMM/LING 2050 English for Global Communication (GD)

ECON 2113 Principles of Microeconomics

ECON 2133 Principles of Macroeconomics (pre-req: ECON 2113)

ETHN 2002 Intro to Ethnic Studies

COMM/LING 2050 English for Global Communication (GD)

GEOG 1000 People, Places, and Environments

GEOG 2003 Geography in the Global Economy

GEOG 2019 Geography of Recreation

GEOG 2100 World Geography: Developed regions (GD)

GEOG 2110 World Geography: Less developed regions (GD)

GEOG 2300 Geography of Environmental Resources

GEOG 2350 Climate Change: Science and Society

GENS 2400 Intro to Gender Studies

GERO/HDFS/SOCW 2400 Intro to Gerontology

HIST 2012 American Business History

HIST 2150 Shop Til You Drop: Consumerism (GD)

HIST 2222 Western Europe Since 1500

HIST 2444 History of Sports in Western Society

INTL 1000 Intro to International Studies

LING 2710 English Grammar

PLAN 1900 Sustainable Cities (GD)

PLAN 2030 Global Cities (GD)

POLS 1010 National Government

POLS 1050 Politics and Global Understanding (GD)

POLS 2010 Intro to Comparative Gov't and Politics (GD)

POLS 2020 International Relations

PSYC 1000 Intro to Psychology

PSYC 2777 Ethnocultural Psychology (pre-req: PSYC 1000) (DD)

RCSC 2601 Leisure in Society

RUSI 2002 Intro to Russian Studies (taught in English)

SECS 1000 Intro to Security Studies

SOCI 1010 Race, Gender, Class (DD)

SOCI 1025 Courtship and Marriage

SOCI 1050 Global Understanding: Sociological perspectives (GD)

SOCI 2110 Intro to Sociology (DD)

SOCI 2111 Modern Social Problems (pre-req: SOCI 2110) (DD)



#### General Education: Humanities

#### Must have at least 1 to graduate

CLAS 1300 Greek and Latin

CLAS 1500 Classical Mythology (GD)

CLAS 1600 Sex, Spells & Sacrifices: Religion in the

Classical World (GD)

CLAS 2000 Intro to Classics

CLAS 2220 Great Works of Ancient Lit: Greece (GD)

CLAS 2230 Great Works of Ancient Lit: Rome (GD)

CLAS 2400 Women in Classical Antiquity

CLAS 2500 Greek Tragedy in Translation

**ENGL 1000 Appreciating Literature** 

ENGL 1500 Topics in Words, Images, and Ideas

ENGL 2000 Interpreting Literature

ENGL 2100 Major British Writers

ENGL 2200 Major American Writers

**ENGL 2230 Southern Literature** 

ENGL 2400 World Literature in English (GD)

**ENGL 2420 Short Story** 

ENGL 2470 Topics in Popular Literature

ENGL 2480 Science Fiction

ENGL 2570 The Supernatural

ENGL 2630 The Bible as Literature

ETHN 2001 Intro to Ethnic Studies (DD)

FILM 2900 Intro to Film Studies

FORL 1060 Global Understanding through literature (GD)

FORL 1551 Intro to Russia: Land of the (GD)

FORL 1662 Intro to Hispanic Studies (GD)

FORL 2220 Sci-Fi: East and West (GD)

FORL 2520 French Cinema Classics (GD)

FORL 2600 Literature in Translation—the Holocaust (GD)

FORL 2620 French Literature in Translation (written in English (GD))

FORL 2622 Francophone Literature of the Americas (written in English) (GD)

FORL 2624 Francophone Literature of Africa (written in English)

FORL 2660 Spanish Literature (written in English)

FORL 2661 Latin-American Literature (written in English)

FORL 2662 Special Topics in Hispanic Cinemas (GD) FORL 2665 Don Quixote (written in English) (GD)

FORL 2666 Latino Texts (written in English) (DD)

FORL 2680 German Literature (written in English) (GD)

FORL 2690 Intro to German Cinema (GD)

FORL 2760 Special Topics in Hispanic Studies

GLST 1000 Intro to Global Studies (GD)

GRBK 2000 Intro to the Great Books

GRBK 2010/ASIA 2010 Great Books of Modern China

GRBK 2400 Great Books of the Middle Ages &

Renaissance

GRBK 2500 Great Books of the Enlightenment

GRBK 2600 Great Books of the 19th & 20th Centuries

HIST 1030 World Civilizations to 1500 (GD)

HIST 1031 World Civilizations since 1500 (GD)

HIST 1050 American History to 1877 (DD)

HIST 1051 American History since 1877 (DD)

HIST 2300 Passion and Sex in Asian History

INTL 2003 Intro to Chinese Culture

LING 2700 Intro to Language Studies (DD)

LING 2720 Invented Languages

LING 2740 Language in the USA (DD)

MRST 2000 Intro to Medieval and Renaissance Studies

MRST 2400 Intro to Medieval Studies

MRST 2500 Intro to Renaissance Studies

PHIL 1110 Intro to Philosophy

PHIL 1175 Intro to Ethics (\*any ethics course good for premed students)

PHIL 1176 Intro to Social and Political Philosophy

PHIL 1180 Critical Reasoning

PHIL 1290 Intro to Philosophy of Religion (GD)

PHIL 1500 Intro to Logic (NOT for students WEAK in MATH)

PHIL 2261 Intro to Philosophy of Science

PHIL 2271 Intro to Philosophy of Art

PHIL 2274 Business Ethics

PHIL 2275 Professional Ethics

PHIL 2280 Intro to Philosophy of Sport

PHIL 2282 Philosophy of Law

PHIL 2453 Existentialism and Phenomenology

PHIL 3281 Intro Phil Ethics in Health Care

**RELI 1000 Intro to Religious Studies** 

RELI 1500 Use and Abuse of the Bible (DD)

RELI 1600 Sex, Spells & Sacrifices: Religion in the Classical

World (GD)

RELI 1690 World Religions (GD)

RELI 2340 Religion & Science

RELI 2350 Religion & Sexuality

RELI 2400 Religion and Film (GD)

RELI 2691 Classical Islam

RELI 2692 Buddhism (GD)

RELI 2693 Hinduism (GD)

**RELI 2694 Indigenous Religions** 

RELI 2695 Intro to Old Testament (GD)

RELI 2696 Intro to New Testament (GD)

RELI 2697 Judaism (GD)

RUSI 2001 Intro to Russian Studies (taught in English)

RUSS 2120 Intro to Russian Culture (taught in English)

THEA 2235 Global Theater (GD)



#### General Education: Fine Arts

Must have at least 1 to graduate

ART 1001 Color and Design

**ART 1105 Ceramics Appreciation** 

ART 1250 Digital Photography for non-art majors

ART 1827 Photography Changes Everything

ART 1910 Art Appreciation (GD)

COMM 2020 Fundamentals of Speech

COMM 2410 Public Speaking

DNCE 1000 Intro to Dance (DD)

**DNCE 1001 Fundamentals of Ballet** 

**ENGL 2815 Intro to Creative Writing** 

ETHN 2003 Intro to Ethnic Studies

MUSC 1008 Music Theory for non-music majors

MUSC 1018 Music Reading and Fundamentals for non-music majors (2 s.h.)

MUSC 1208 Non-music major group piano I (must contact instructor)

MUSC 1308 Non-music major group guitar I (1 s.h.)

MUSC 1625 Concert Choir (audition only-contact instructor) (1 s.h.)

MUSC 1635 University Chorale (audition only-contact instructor) (1 s.h.)

MUSC 1705 Marching Band

MUSC 1715 Concert Band (1 s.h.)

MUSC 2207 Enjoyment of Music (GD)

MUSC 2249 Music in World Cultures (GD)

MUSC 2257 Jazz Appreciation (DD)

RUSI 2003 Intro to Russian Studies (taught in English)

THEA 1000 Intro to Theater (GD)

THEA 1010 Intro to Acting \*typically open to non-majors in spring
THEA 2015 Voice & Articulation \*typically open to non-majors in spring

## Register!

- You will receive your registration pin upon the completion of the PIER quiz. Use the pin and register for classes following the guidance on the previous slides
- For step by step instructions on how to register, visit <a href="https://thcasadvising.ecu.edu/wp-content/pv-uploads/sites/225/2019/09/How-to-Register-for-Classes51.pdf">https://thcasadvising.ecu.edu/wp-content/pv-uploads/sites/225/2019/09/How-to-Register-for-Classes51.pdf</a>
- If you run into registration PROBLEMS, visit <a href="https://thcasadvising.ecu.edu/wp-content/pv-uploads/sites/225/2019/08/HANDOUT-registration-problems.pdf">https://thcasadvising.ecu.edu/wp-content/pv-uploads/sites/225/2019/08/HANDOUT-registration-problems.pdf</a> for solutions.

### Important Reminders

- Register for 12 or more hours. Classes that are closed now may open up later so keep checking banner regularly.
- Check your ECU email daily. See <u>tutorial</u> on setting up email.
- Explore our <u>THCAS Academic Advising & Resource Center</u> (AARC) website in addition to your major department's website (linked from the AARC page)
- View your <u>undergraduate catalog</u> for major requirements, course descriptions, general education, and academic policy.

### Final Tips

- Be sure to follow the virtual orientation schedule so you can learn all about your major and college (and perhaps learn about minors or double major opportunities). This is your chance to explore all of the major/minor offerings at ECU!
- Review your <u>Admissions Checklist</u> to make sure you have taken care of everything.
- Always communicate with your academic advisor any questions or concerns you have now and during the semester.

### Questions?

- Consult your Assigned Academic Advisor. You can view your assigned academic advisor in Pirate Port by selecting the contact icon on the right.
- If you have not been assigned an advisor, please email <a href="mailto:THCASadvising@ecu.edu">THCASadvising@ecu.edu</a> with your name, Banner ID, and intended major along with your question and we will assist you.
- Physics information Dr. Mark Sprague spraguem@ecu.edu