



Academic Advising &  
Orientation Session  
*Class of 2023*





# Overview of this Session

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- Discussion / Questions



# Welcome!

- Introductions:
  - Prof Stone
  - Maj Hawkins, USMC
  - 2ndLt Satchell, USMC
  - ENS Pickar, USN



# Naval Academy Mission

To develop midshipmen **morally, mentally, and physically** and to imbue them with the highest ideals of duty, honor and loyalty in order to graduate leaders who are dedicated to a career of naval service and have potential for future development in mind and character to assume the highest responsibilities of command, citizenship and government.



# USNA Majors

Division of Engineering and Weapons	Division of Mathematics and Science	Division of Humanities and Social Sciences
EAS: Aerospace Engineering	SCH: Chemistry	FLA: Arabic
EEE: Electrical Engineering	SCS: Computer Science	FLC: Chinese
ECE: Computer Engineering	SCY: Cyber Operations	FPS: Political Science
EGE: General Engineering	SGS: General Science	FQE: Quantitative Economics
EME: Mechanical Engineering	SIT: Information Technology	HEG: English
ENM: Naval Arch & Marine Eng	SMA: Mathematics	HHS: History
ENR: Nuclear Engineering	SME: Math with Economics	
EOE: Ocean Engineering	SMO: Operations Research	
EWE: Robotics and Control Engineering	SOC: Oceanography	
	SOP: Physics	



# USNA Core Curriculum

4/C Year		3/C Year		2/C Year		1/C Year	
Seamanship / Leadership I	Cyber I	Navigation I	Ethics	Navigation II	Leadership II	Law for JO's	JO Practicum
Chemistry I	Chemistry II	Physics I	Physics II	Electrical Eng.	Cyber II	Tech Elective	Weapons Systems
Calculus I	Calculus II	Calculus III	4 <sup>th</sup> Math Course		Ship Propulsion	Warfare Systems	Control Systems Lab
English I	English II	Civilization I	Civilization II				
Naval History	U.S. Government			Humanities Elective		Humanities Elective	
Swimming I	Boxing / Wrestling	Swimming II	Martial Arts I	Personal Conditioning	Martial Arts II	Elective	Warfare Related

- Overall requirement – complete the majors matrix; each of which is comprised of approx. 40 courses or 140 credit hours over the 4-year program. Normally 18 credit hours per semester.



# Typical Plebe Year

FALL		
<b>Calculus I</b>	<b>SM121</b>	4-0-4 (4 cr)
<b>Chemistry I</b>	<b>SC111</b>	3-2-4 (4 cr)
<b>English I</b>	<b>HE111</b>	3-0-3 (3 cr)
<b>U.S. Government</b>	<b>FP130</b>	3-0-3 (3 cr)
<b>Seamanship</b>	<b>NS101</b>	1-2-2 (2 cr)
<b>Leadership</b>	<b>NL110</b>	2-0-2 (2 cr)
<b>P.E.</b>	<b>PE101/ PE111</b>	1-0-0 (0 cr)
<b>6 Courses + PE</b>	<b>18 Credits</b> 20 Contact Hrs	

SPRING		
<b>Calculus II</b>	<b>SM122</b>	4-0-4 (4 cr)
<b>Chemistry II</b>	<b>SC112</b>	3-2-4 (4 cr)
<b>English II</b>	<b>HE112</b>	3-0-3 (3 cr)
<b>U.S. Naval History</b>	<b>HH104</b>	3-0-3 (3 cr)
<b>Cyber I</b>	<b>SY110</b>	2-2-3 (3 cr)
<b>P.E.</b>	<b>PE102</b>	1-0-0 (0 cr)
<b>5 Courses + PE</b>	<b>17 Credits</b> 19 Contact Hrs	





# Course Identifiers

## Division:

E – Engineering  
S – Math & Science /  
Quantitative Econ  
H – History / English  
F – Poli Sci / Econ /  
Languages  
N – Pro Dev /  
Officer Dev  
P – Phys Ed

## Nominal Year:

1 – 4/c  
2 – 3/c  
3 – 2/c  
4 – 1/c

## Typical Variants:

P – Plebe  
A – Additional help  
S – Honors  
V – Validators  
X – International  
Mids

S M 2 2 1 P

Unique Course Identifier

## Engineering:

A – Aero/Astro  
C – Computer  
E – Electrical  
M – Mechanical  
N – Naval/Ocean  
R – Nuclear  
W – Robotics and  
Control Engineering

## Math & Science:

C – Chemistry  
I – Computer Sci  
M/A – Math  
O – Oceanography  
P – Physics  
Y – Cyber

## Hum & Soc Sci:

E – Econ or English  
H – History  
P – Political Science  
X – Arabic, Chinese,  
French, German,  
Japanese, Russian  
or Spanish



# Chemistry (SC)

## FALL

**Foundations of Chemistry I**

**SC111**

3-2-4  
(4 cr)

**Modern Chemistry**  
*(Course for midshipmen who validated one semester of Chemistry)*

**SC151**

3-2-4  
(4 cr)

## SPRING

**Foundations of Chemistry II**

**SC112**

3-2-4  
(4 cr)

No Specific Follow-On Course  
*(Some Possibilities Include: HH215P, FP210, FP220, FP230, HE217, or SP211P)*



# English (HE)

## FALL

**Practical Writing**

**HE101**

3-0-3  
(3 cr)

**Rhetoric and Intro to Literature I**

**HE111**

3-0-3  
(3 cr)

**Rhetoric and Intro to Literature I**

**HE111S**  
(Honors)

3-0-3  
(3 cr)

**Rhetoric and Intro to Literature II**

**HE112**

3-0-3  
(3 cr)

## SPRING

**Rhetoric and Intro to Literature I**

**HE111**

3-0-3  
(3 cr)

**Rhetoric and Intro to Literature II**

**HE112**

3-0-3  
(3 cr)

**Rhetoric and Intro to Literature II**

**HE112S**  
(Honors)

3-0-3  
(3 cr)

No Specific Follow-On Course  
*Some Possibilities Are:*  
*HH215 , FP210, FP220, FP230, or*  
*HE217, SE201*



# Languages

We offer courses in seven (7) languages:

- Arabic
- Chinese
- Japanese
- Russian
- French
- German
- Spanish

Midshipmen can **major** in Arabic and Chinese.

Midshipmen can **minor** in any of our 7 languages.

*Language validation exams occur during the first two weekends of the Fall semester.*

- Notices will be emailed at the beginning of the AY.
- **Remember, all validations open matrix opportunities!!!** *Language minors, study abroad, independent research and graduate education opportunities become more possible with validations.*
- Midn who fail to register are often placed in languages classes that don't increase their skill-set.

Bottom Line - Ensure you test and determine your validation eligibility.



# Mathematics (SM)

## FALL

Pre-Calculus	SM005	4-1-4 (4 cr)
Calculus I	SM121	4-0-4 (4 cr)
Calculus II	SM122	4-0-4 (4 cr)
Multivar Calc w/ Review ( <b>Eligible Students were briefed</b> )	SM122X	4-0-4 (4 cr)
Calc III w/ Vector Fields	SM221P	4-0-4 (4 cr)

## SPRING

Calculus I	SM121A	4-1-4 (4 cr)
Calculus II	SM122	4-0-4 (4 cr)
Calc III w/ Vector Fields	SM221	4-0-4 (4 cr)
Multivar Calc w/ Inf Series	SM221X	4-0-4 (4 cr)
Differential Equations	SM212P	4-0-4 (4 cr)



# Speaking of Math.....

**DO NOT THROW AWAY** the WebAssign Access Code that comes wrapped in a bundle with your calculus text!!! **Yes, you need it!!!**

Also we do not recommend buying a used Calculus textbook, the access code does not come with a used text and it is required by most of our instructors.

Set up your WebAssign account with username m23xxxx. Then write your username in the front of your text. Register the first week of class even if your course this fall is not utilizing the system.

You will use the same text for Calculus I, II, & III. **Do not sell your textbook until you have passed Calculus III!**





# FP, HH, NL, NS & SY Courses

## FALL

<b>U.S. Government and Constitutional Development</b>	<b>FP130</b>	3-0-3 (3 cr)
<b>Prepare to Lead</b>	<b>NL110</b>	2-0-2 (2 cr)
<b>Seamanship</b>	<b>NS101</b>	1-2-2 (2 cr)

## SPRING

<b>American Naval History</b>	<b>HH104</b>	3-0-3 (3 cr)
<b>Cyber Security</b>	<b>SY110</b>	2-2-3 (3 cr)





# Physical Education

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## Fall:

- **PE101 (Male) / PE 111 (Female) – Boxing & Wrestling**
  - **Boxing:** Plebes can validate boxing during their Plebe summer boxing program. If they do not participate in the Plebe summer program, they need to inform the instructor if they have prior boxing experience, and the instructor can test and validate them during the PE class during the Academic Year. (POC: Coach James McNally)
  - **Wrestling:** Plebes can validate during their Plebe Summer wrestling class, MA4. If they were varsity wrestlers in high school, they have to have earned at least 2 varsity letters.

## Spring:

- **PE102 – Swimming:** Plebes can validate on the first day of their swim class during the academic year. They must achieve a time of 3:30 or faster for a 200 meter swim and jump from the 5 meter platform.



# Grades

	Grades	
A=Excellent	90-100	4 Quality Points
B=Good	80-89	3 Quality Points
C=Satisfactory	70-79	2 Quality Points
D=Marginally Passing	60-69	1 Quality Point
F=Failing	Below 60	0 Quality Points

## EXAMPLE

GRADE	COURSE	QPTs	HOURS		
A	SC111	4	4	16	
B	SM121	3	4	12	
A	FP130	4	3	12	
A	HE111	4	3	12	
C	SY110	2	3	6	
		TOTAL	17	58	QPR= 58/17= <b>3.41</b>

**Progress Reports:**  
6 weeks and 12 weeks

**End of Semester:**  
QPR and CQPR assigned;  
PRT & PE Grades,  
Aptitude & Conduct Grades.



# Credits

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## CREDIT HOURS PER SEMESTER

MINIMUM = 15 HOURS

MAXIMUM = APPROXIMATELY 22 HOURS

AVERAGE = 17 HOURS

	Lectures per Week	Lab Hours	Credits
Chemistry Course -SC111	3	2	4
Calculus I - SM121	4	0	4
Seamanship - NS101	1	2	2



# Student Responsibilities

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- Contact your adviser and every instructor regularly. *We absolutely reject the idea that supplementary assistance, or extra instruction, somehow means that you're not smart or talented.*
- **Read email and Blackboard postings carefully** and follow instructions.
- Utilize instructor and advisor office hours.
- Make appointments in advance and keep them.
- Follow-up on advice and referrals.



# Validation Policies

Department	Validation Opportunity in the Summer	Upper Level Validation
<b>Division of Engineering and Weapons</b>		
Engineering	No validation tests are administered during plebe summer.	Interview, test
<b>Division of Mathematics and Science</b>		
Chemistry	Tests administered for Chemistry 1 and Chemistry 2. Biology AP=5 or IB $\geq$ 6 validates Biology 1.	Interview, test
Computer Science	No validation tests are administered during plebe summer.	
Mathematics	Tests administered for Calculus 1 ("AB" AP $\geq$ 4 validates), Calculus 2 ("BC" AP $\geq$ 4 validates), and Statistics AP=5 validates SM219. <i>The math dept. also allows some validation based on college grades. Midn can take their transcripts to LCDR Szurovy or Prof. Zarikian for consideration.</i>	
Oceanography	No validation tests are administered during plebe summer.	
Physics	Tests administered for Physics 1 and Physics 2.	
<b>Division of Officer Development</b>		
Leadership, Ethics, and Law	No validation tests are administered during plebe summer. Introductory Psychology AP $\geq$ 4 validates NL200.	



# Validation Policies

Department	Validation Opportunity in the Summer	Upper Level Validation
	<b>Division of Humanities and Social Sciences</b>	
Economics	No validation tests are administered during plebe summer. AP Micro $\geq 4$ validates SE201 and AP Macro $\geq 4$ validates SE202.	Interview, test
English	Tests administered for English 1 (AP=5 or IB=7, Literature or Language, validates)	Syllabus, transcript
History	No validation tests are administered during plebe summer. AP World History plus either AP European History or AP American History = 10 validates	Syllabus, transcript, and interview.
Political Science	No validation tests are administered during plebe summer. American Government AP $\geq 4$ validates FP130. Comparative Politics AP $\geq 4$ validates FP230.	



# Validation Policies

## Division of Humanities and Social Sciences

Chinese AP=5 validates Chinese 1&2

French AP $\geq$ 4 validates French 1&2 and  
French AP=5 validates French 3&4.

German AP $\geq$ 4 validates German 1&2 and  
German AP=5 validates German 3&4.

Japanese AP=5 validates Japanese 1&2

Spanish AP $\geq$ 4 validates Spanish 1&2 and  
Spanish AP=5 validates Spanish 3&4

Language  
Studies

Most language  
validation and  
placement  
exams will be in  
the fall.  
Interview, test



# Validation Policies

**Another Reminder -- Validations open matrix opportunities!!!**

*Language minors, study abroad, independent research and graduate education opportunities become more possible with validations.*

If you think you may validate a course you are currently scheduled to take in the fall (typically FP130 or HH104 from prior college courses), please speak with Dr. Williams or Prof. Schmitt in Mahan Auditorium during your allotted time.

Be thoughtful about validations! Speak with your academic adviser. Students occasionally forego a validation because they believe they can take the course and boost their QPR.

Think broadly. If you're concerned with the course material, taking the course is smart. If you're confident in the subject area, using that time to move ahead in your matrix may be the best strategy. Engage your adviser on the subject!



# AP Scores

- Scores have been received for most midshipmen
- Validation credits will be awarded to those with qualifying scores and can be viewed in MIDS
- Options to check your scores are as follows:
  - Go to <https://apscore.collegeboard.org>  
You may need your AP number (or student ID number) you entered on your AP answer sheet
- Requesting Official AP Scores
  - Official Score reports are required to receive validation credit.
  - Go to the ap score website and use the “send scores” option.  
USNA’s college code is 5809
  - The College Board charges \$15 to send scores, \$25 for rush orders

# Questions?

Contact Information

\*Phone numbers and emails of professors\*



# First Semester Course Summaries – Class of 2023

**Most of the courses that a plebe is likely to encounter in his/her first semester at the Naval Academy are described in the following list.**

<b>Department or Division</b>	<b>Course Number Credit</b>	<b>Course Description</b>
<b>Mathematics</b>	<b>SM005 4-1-4</b>	<b>Pre-calculus Mathematics. A pre-calculus course for those who need more preparation in algebra and trigonometry. Summer school is required. SM005 counts as a free elective (in matrices where there is a free elective).</b>
	<b>SM121 4-0-4</b>	<b>Calculus and Analytic Geometry I. A first calculus course for those who have not had a significant amount of calculus and have a good background in pre-calculus mathematics.</b>
	<b>SM122 4-0-4</b>	<b>Calculus and Analytic Geometry II. A second calculus course for one semester validators.</b>
	<b>SM122X 4-0-4</b>	<b>Multivariable Calculus with Review. For those who have had a year of calculus study and volunteer for SM122X. Placement provides validation for CalcI. Course includes review of first year calculus, CalcII work and introduction of first part of Calculus III. Completion of SM122X counts as credit for SM122.</b>



# First Semester Courses – Class of 2023

Department or Division	Course Number Credit	Course Description
Mathematics (Cont.)	SM212	Differential equations. Required of majors in most technical disciplines.
	Or SM222 4-0-4	Differential equations with matrices. Intended for mathematics and math with economics majors.
Chemistry	SC111 3-2-4	Foundations of Chemistry I. A first college level course in chemistry.
	SC151 3-2-4	Modern Chemistry. A one semester course which satisfies the plebe chemistry requirements for those who are well prepared in chemistry but are unable to validate for a full year.
Physics	SP211 3-2-4	General Physics. A first college-level course in physics.
	SP221 3-2-4	Physical Mechanics. A first college-level calculus-based physics course. Primarily for physics majors and others seeking a deeper understanding.
English	HE101 3-0-3	Practical Writing. For those whose writing skills need reinforcement prior to taking HE111W & HE112W. HE101 counts as a HUM/SS elective in all matrices. Summer school is not necessary.
	HE111 3-0-3	Rhetoric and Introduction to Literature I. Stresses writing of rhetorically effective and grammatically correct expository prose. Reading includes essays, short stories, and plays.



# First Semester Courses – Class of 2023

Department or Division	Course Number Credit	Course Description
English (Cont.)	HE111S 3-0-3	Rhetoric and Introduction to Literature I. An honors level course for those who have well-developed writing skills.
	HE112V 3-0-3	Rhetoric and Introduction to Literature II. A continuation of HE111 for one semester validators. Readings include novels and poetry.
History	HH104 3-0-3	American Naval History. The history of American sea power.
Political Science	FP130 3-0-3	U.S. Government and Constitutional Development. A study of American democracy and the structure and function of its government and the Constitution that midshipmen take an oath to defend.
	FP130X 3-0-3 Only offered fall semester	The basic concepts of American democracy and the Constitution placed in comparative context for midshipmen from foreign countries.
Leadership	NL110 2-0-2	Preparing to Lead. An introduction to the fundamentals of self-leadership, in the context of theories and principles of individual and group leadership.
Seamanship	NS101 1-2-2	Fundamentals of Seamanship. Provides basic maritime background in general ship characteristics, ship handling and Rules of the Road. Includes at-sea labs on YPs.
Computer Science	SY110 2-2-3	This introduction to Cyber Security is the first of two required courses that all midshipmen will take.
Languages & Cultures	FLXXX 3-0-3	Here is to be found a large collection of courses in Arabic (FA), Chinese (FC), French (FF), German (FG), Japanese (FJ), Russian (FR), and Spanish (FS), from the beginning level to advanced readings in literature for foreign cultures.



# English Course Info

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## USNA Plebe English FAQs

### *I placed in HE1XX. What does this mean?*

As with math placement, there are several tracks of plebe English to fit your abilities. HE111/112 is the baseline track in which the majority (roughly 78%) of midshipmen place. The variations in the fall include:

**HE101 Practical Writing (3-0-3)** designed for students who have challenges with written English. They will take a three-semester track of English courses: HE101, HE111W, and HE112W. HE101 counts as a HUM/SS elective for all majors, so the extra semester of in the core English sequence does not add any burden to their overall courseload.

**HE101E:** This variant of HE101 is designed for US students who experience trouble with ESL (English as a Second Language) issues in their writing. Students in this track take HE101E, HE111E, and HE112W.

**HE101X:** This variant of HE101 is designed for international candidates. They should take HE101X, HE111X, and HE112W. Students enrolled in HE101X should also take the one-credit HE044X, a weekly course designed to help with their acculturation to life in the United States.



# English Course Info

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## USNA Plebe English FAQs

**HE111 Rhetoric and Introduction to Literature I (3-0-3)** The first of a two course sequence stressing the writing of rhetorically effective and grammatically correct expository prose. Readings include essays, short stories, and plays. [fall] Students enrolled in HE111 should take HE112 in the spring semester of plebe year.

**HE111S Rhetoric and Introduction to Literature I (3-0-3)** An honors level of HE111 for students with well-developed writing skills. [fall] The follow-on course is HE112S.

**HE112V Rhetoric and Introduction to Literature II (3-0-3)** A one-semester course in writing and literature, focused on novels and poetry. Prereq: validation of HE111, either through an AP/IB score or through an exceptional performance on the writing placement exam. There is no follow on. Most students should take this class in the fall, but two sections will be available in the spring semester as well.



# English Course Info (Cont)

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*I was really good in high school English. I'm surprised I didn't validate. Why is that?*

The English Department validates HE111 every year for roughly two hundred students. Because of the academic strength of the plebe class every year, many excellent students do not validate.

*Can I validate both semesters of plebe English?*

It's possible but extremely rare: perhaps one person every ten years does it.

*Can I find out how I scored on the test?*

The English Department does not give an exam a grade; normally two readers, in some cases three, will read it “holistically” and give one of four ratings, which correspond roughly with the placement levels in the plebe English sequence—your placement is your grade.

*I did really well on my AP test—does that earn validation?*

The English Department automatically awards validation credit for the first semester of Freshman English (HE111) for a score of AP5 on the Language and/or Literature exam. Keep in mind, however, AP score submissions can lag. Students may contact Professor Jason Shaffer, the Chair of English if they believe that they are not categorized correctly.



# English Course Info (Cont)

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*I placed in honors (HE111S/HE112S) will I have to work harder than in HE111/112?*

Every class at the Naval Academy is based on the compact that you will strive to do your best, i.e. work your hardest, in all of your classes regardless of the course level. HE111S/112S carries the same credit weight and has similar course requirements and grading criteria to the standard HE111/112 track. That being said, you will be grouped with other midshipmen who have also demonstrated well-developed writing skills, so you can expect your peers to be discussing and writing about the literature at an equally high caliber.

*Does participation in the IB program get any validation credit?*

A score of 7 on the International Baccalaureate Higher Level (HL) English Exam (A1 Exam) earns the same validation as an AP5.

*I've taken English classes at another college. Can I get credit?*

Academy transfer credit rules are restrictive, but you may be able to receive credit for upper-level English courses taken at another university by petitioning the department chair.



# International Program Info

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## **Talking points for Class of 2023 – related to academic majors and International travel opportunities**

USNA established International Programs Office in 2005 with the express purpose of facilitating programs outside of the classroom to develop foreign language proficiency, regional understanding and cultural awareness and appreciation

Semester study abroad program began in 2005.

Last year, 81 midshipmen participated in semester programs abroad, next year 70 midshipmen will participate in 14 countries.

Foreign language proficiency is a must for foreign naval academies, but we also send STEM majors to ABET accredited programs where foreign language proficiency not a requirement.

Program eligibility is 2/C midn or first semester 1/C year

**Every Fall Semester there is an IPO Open House in which MIDN can learn which programs are being offered for the upcoming year.**



# International Program Info (Cont)

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- Faculty-led programs. 10 day – 3 week opportunities for midshipmen.
  - No foreign language requirement
  - Programs vary year to year depending on what is proposed by faculty
  - Eligibility depends on focus of faculty member objectives but in some cases, plebes can apply
- Professional Training. Four week opportunities with foreign navies
  - Sometimes foreign language proficiency required
  - Preference for upper class participation, rare for plebes to be selected
- Participation not based on academic major (some exceptions exist for faculty led programs)
- Since 2007, 42% of participants for all programs abroad have been STEM majors
- **Points of contact:**
  - Tim Disher – Director, IPO – [disher@usna.edu](mailto:disher@usna.edu) or 3-2981
  - Angela Yu – Deputy Director, IPO – [akyu@usna.edu](mailto:akyu@usna.edu) or 3-2993



# Difference between SME and FEQ

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## Mathematics with Economics major (SME)

The Mathematics with Economics major is an interdisciplinary major administered by the mathematics department. **The goal of this major is to produce graduates who are adept at using mathematics to understand and evaluate problems in economics.** The curriculum consists of an equal number of advanced courses in mathematics and economics. The mathematics with economics major prepares midshipmen with the analytic and computational tools to pursue further study in economics, finance, business administration or operations analysis. Leaders in these fields are using increasingly sophisticated statistical techniques to sift massive amounts of data for deep insights. In the Navy or Marine Corps, graduates from this major would be well equipped to solve problems in areas such as weapons analysis, manpower studies, decision analysis, and strategic problems. The Mathematics with Economics major is a good choice for midshipmen who are fascinated by economic applications and comfortable with mathematical theory and computation.

## Quantitative Economics major (FQE)

**The Quantitative Economics major has a strong emphasis on evaluating economics issues and policies through graphical, mathematical, and empirical approaches.** The goal of the major is to produce graduates who can think critically and who can understand, explain and apply the core principles and quantitative methods of economics to resource allocation problems, the functioning of economic institutions, and the decisions of policy makers and other economic agents within a society. The Quantitative Economics major prepares midshipmen to be sound resource and financial managers and decision makers in the Navy and Marine Corps and beyond. The major consists of a rigorous sequence of principles, theory, and economic statistics and econometrics courses, and a set of major electives that allow the interested student to pursue upper-level economic policy courses as well as complementary interests in accounting and finance, mathematics, or foreign languages, making the Quantitative Economics major a good choice for midshipmen interested in languages and study abroad or graduate work in business, finance, or economics. Qualified students may also pursue advanced research opportunities through the Quantitative Economics Honors (FQEH) major.



# Difference between SME and FEQ

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Midshipmen may well be interested in both the Mathematics with Economics major (SME) and the Quantitative Economics major (FQE).

**The Quantitative Economics major allows a broader and more in-depth study of economics policies and issues** and also offers opportunities to pursue a background in accounting and financial analysis, study foreign languages or participate in an honors program in economics.

**The Mathematics with Economics major allows midshipmen to support their study of economics with an in-depth study of related mathematical material.** Midshipmen who are comfortable with and interested in mathematics would enjoy the Mathematics with Economics major. In particular, students interested in advanced graduate level study in economics or related fields are encouraged to either choose Mathematics with Economics or to pursue appropriate math-intensive electives available in the Quantitative Economics major.

Though it is possible to complete a large portion of each major within the other major, we encourage midshipmen to select the major that most appeals to them during their plebe year so that they receive the most appropriate support and advising.



# Preregistration Guide 2023

<u>Fall Semester Course</u>	<u>Spring Semester Course</u>	<u>Summer School</u>
SM005	SM121A	Yes
SM121	SM122	
SM122	SM221	
SM122X	SM221X	
SM221P	SM212P (Preferred)	
SM212 or SM222	No Follow-On Course	
SC111	SC112	
SC151	HH215, HE217, FP210, FP230, SI204, FL or FREL	
HE101	HE111W	No
HE111	HE112	
HE111S	HE112S	
HE112V	HH215P (Preferred), HE217, FP210, FP230, SI204, FL or FREL	
FP130/FP130X	HH104 or HH104X	
HH104	FP130	
NL110	SY110 (Approx. half the Class)	
NS101	SY110 (Approx. half the Class)	
SY110	NL110 & NS101 (Approx. half the Class)	
PE101	PE102	
PE111	PE102	