

COMPUTER SCIENCE VIRTUAL FRESHMAN ORIENTATION 2020



OLD DOMINION
UNIVERSITY

Welcome to ODU!

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- ▶ Thank you for joining me today.
- ▶ We will be reviewing the following information to aid in your transition into our Monarch community.
 - ▶ Finish in Four
 - ▶ Getting to Graduation
 - ▶ General Education
 - ▶ Major Requirements
 - ▶ Preparing for registration
 - ▶ CS curriculum
 - ▶ CS 4 yr plan

Finish in 4 years Initiative

- University Initiative to help student's complete degrees within 4 years
- Each semester students must enroll in at least 12- 15 credit hours and in most cases need to take summer courses.

A minimum of 120 credits are required for all bachelor's degrees.

**$120/4 = 30$ credits per academic year or $30 \text{ cr.}/2 \text{ semesters} = 15 \text{ cr. per semester}$
or you can take each semester 12 cr +12 cr + 6cr in summer = 30cr.**

Or any other variable

- Contact Financial Aid early if you are planning on taking Summer courses
- Requires that students evaluate/assess strengths and weaknesses EARLY!
- It is a commitment for the student and the family.

Preparing for Fall 2020 Registration

What Do You Take???

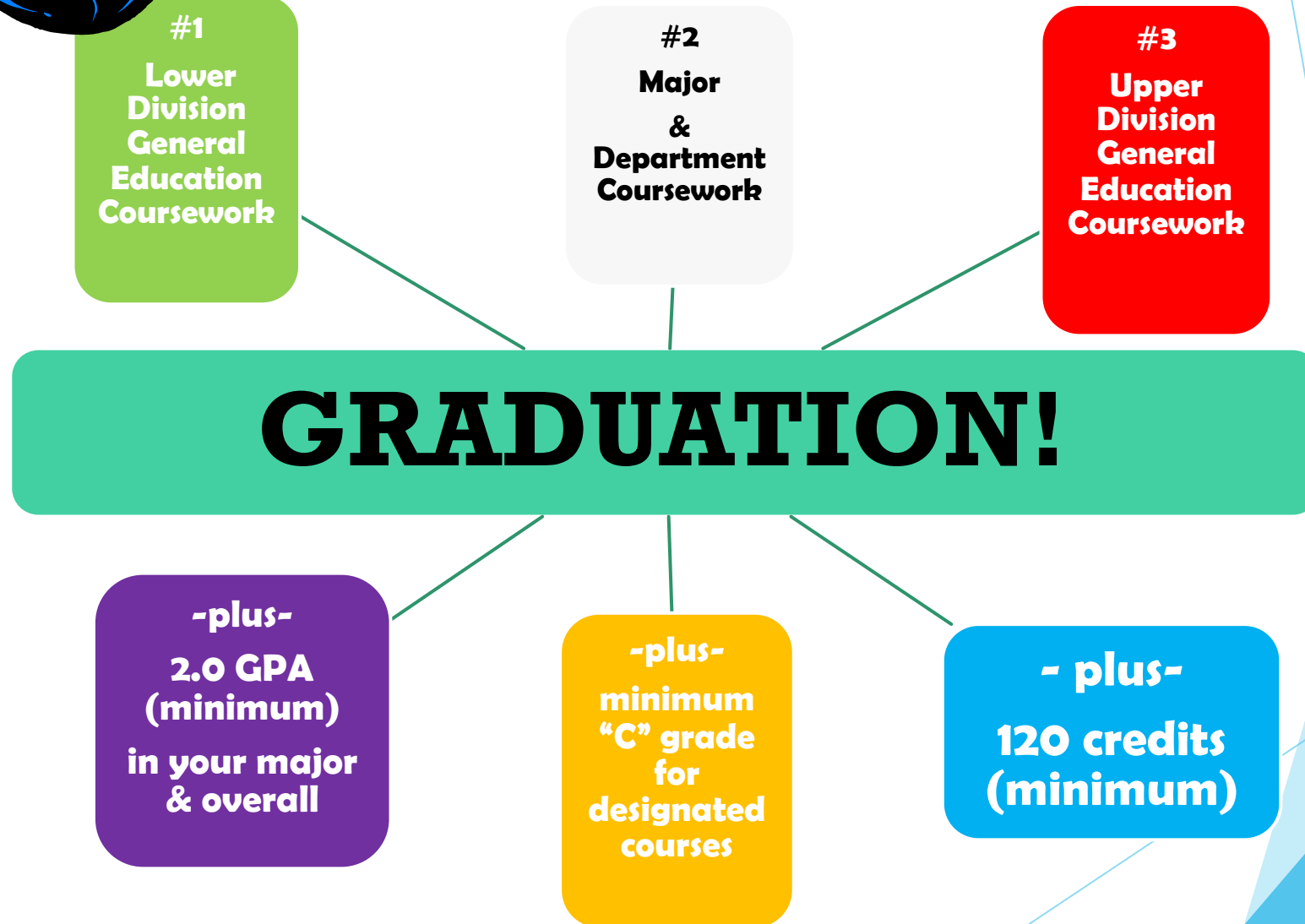
*let's go over
your choices
now!*



*take out your
major curriculum
worksheet*



At ODU All students follow the same path to graduation:



General Education Requirements

(Some of these are really specific to your major)

Skills

Written Communication

Mathematics

Oral Communication

Language & Culture:

Information Literacy & Research



Ways of Knowing

Literature

Interpreting the Past

Human Behavior

Philosophy & Ethics

Impact of Technology

Human Creativity

Nature of Science



General Education, Cont.



WRITTEN COMMUNICATION

All students are required to
complete TWO English
Composition courses totaling 6

credits =
(1) ENGLISH 110C
+

(2) ENGLISH 231C (for CS)

Your placement is based on the WSPT
If you have not taken the WSPT do so
ASAP

*If you have credit for ENGL 110C
(AP/IB/Dual/CLEP) you do not need to
take the WSPT

Score of 1
Engl 101 + Engl 110C

Score of 3
ENGLISH 110C: English
Composition I

No Score
No English Composition
Class can be taken until score
is posted.
Take the test!





General Education, Cont.



MATHEMATICS

No SAT < 540/ACT 22	➡	Math 103M
SAT 540-570/ACT 22-24	➡	MATH 102M
SAT 580-680/ACT 25-29	➡	MATH 162M
SAT 690-730/ACT 30-32	➡	MATH 163M
SAT 740-800/ACT 33-36	➡	MATH 211



You might need:

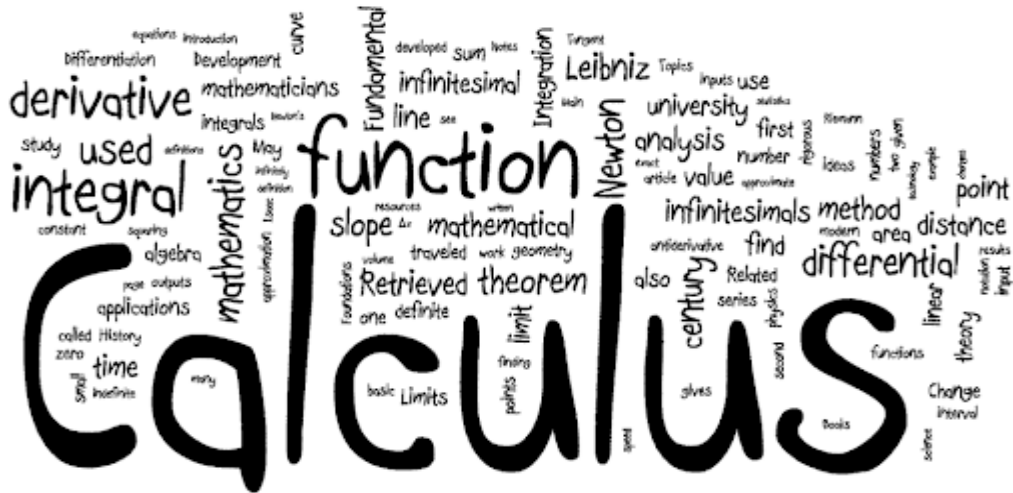
Math 102/103M -
COLLEGE ALGEBRA



Math 162M -
PRE CALC I



Math 163M –
PRECALC II



Math in CS Major:

MATH 211 - CALCULUS I



MATH 212 - CALCULUS II



MATH 316 - INTRO LINEAR ALGEBRA



STAT 330 - INTRO PROBABILITY & STATS





General Education, Cont.



LANGUAGE & CULTURE

All student are required to (0-6 credits) of any ONE listed language

*Some degrees require completion of intermediate level language. This is important to keep in mind if you change majors satisfy 0-2 courses

You Are EXEMPT From Foreign Language if you meet one of the below requirements:

- You completed 3 years of 1 language in high school
- You completed 2 years of 2 languages in high school
- You graduated high school prior to December, 1985



Got Credits?

Please be certain that any transfer credits (AP, IB, Dual enrollment, etc.) from high school or other colleges have been posted to your ODU transcript

If any are missing, contact the ODU Admissions Office ASAP to find out the status:
(757) 683-3685



Registering for Classes

1. How many classes would you like to take this Fall? 12 credits is considered full time. Most students take 12-15 credits their first semester
2. Just for the Fall semester you will be pre-registered for up to 3 courses by the registrar.
3. On your orientation day, during our afternoon zoom meeting, you will then add 1-2 more classes to your schedule- I advise you to add your Engl 110C and a Human Behavior...unless you have prior credits for these
4. I will help you register for 1-2 classes and you can ask me any question you have.



Course Load

Which course load *is* right for you?

3 credit hours=
3 hrs of
class/week

12 credit hours
(full-time)
= 4 classes

15 credit hours
(**average** course load)
= 5 classes

18 hour limit



SO WHAT DO I ACTUALLY CHOOSE?



- ▶ Examples of General Education classes could be: Oral Communication, Human Behavior, Human Creativity, Interpreting the Past, Literature, Philosophy & Ethics, Language and Culture or Information Literacy. It is all up to you !!



COMPUTER SCIENCE
BACHELOR OF SCIENCE
Old Dominion University
2020-2021 CATALOG

LOWER DIVISION GENERAL EDUCATION

A. Skills

Written Communication ^

ENGL 110C 3 _____
ENGL 231C 3 _____

Oral Communication

COMM 101R 3 _____

Mathematics (met in major) ^**

Might need to take prior:
MATH 102M/ 103M or 162M or 163M

Language and Culture

0-6 _____

Information Literacy and Research

CS 121G 3 _____

B. Ways of Knowing

Human Creativity (choose one)

ARTH 121A, ARTS 122A, MUSC 264A,
DANC 185A, THEA 241A, COMM/THEA 270A 3 _____

Interpreting the Past (choose one)

HIST 100H, 101H, 102H, 103H,
104H or 105H 3 _____

Literature (choose one)

ENGL 112L, 114L or WCS 100L 3 _____

Philosophy & Ethics (choose one)

PHIL 110P, 120P, 230E, 250E, 303E,
344E, 345E, 355E, or 442E 3 _____

The Nature of Science * (must be 2 semesters in sequence of the following combinations)

BIOL121N/122N & 123N/124N // Biol 136N/137N &
138N/139N // CHEM 105N/106N & 107N/108N //
CHEM 121N/122N & 123N/124N // PHYS 111N & 112N //

PHYS 231N & 232N // OEAS 106N & 108N // OEAS 106N
& 250N // OEAS 110N or 111N, and OEAS 112N

Human Behavior (choose one)

AAS 100S; ANTR 110S; COMM 200S; CRJS 215S;
ECON 200S, 201S, 202S; FIN 210S; GEOG 100S,
GEOG 101S; POLS 100S, 101S, 102S; PSYC 201S, 203S;
SOC201S; WMST 201S 3 _____

Impact of Technology (satisfied in major with CS 300T)

Must Complete 120 credits required for the degree Additional hours may be needed to meet 120 cr. minimum Please refer to the Catalog for all requirements, assessments and requisites for classes, major and graduation. The responsibility for meeting the requirements for a degree rests with the student.

NAME: _____
WSPT: _____ **MATH SAT/ACT:** _____
H.S. GPA: _____ **Math Placement:** _____
AP/IB/DE credits: _____

COMPUTER SCIENCE REQUIREMENTS *** ^

CS 150	Problem Solving and Programming I	4	_____
CS 170	Introduction to Computer Architecture I	3	_____
CS 250	Problem Solving and Programming II	4	_____
CS 252	Introduction to Unix for Programmers	1	_____
CS 270	Introduction to Computer Architecture II	3	_____
CS 300T	Computers in Society	3	_____
CS 330	Object-Oriented Programming & Design	3	_____
CS 350	Introduction to Software Engineering	3	_____
CS 355	Principles of Programming Languages	3	_____
CS 361	Data Structures and Algorithms	3	_____
CS 381	Introduction to Discrete Structures	3	_____
CS 390	Intro to Theoretical Computer Science	3	_____
CS 410	Professional Workforce Development I	3	_____
CS 411W	Professional Workforce Development II	3	_____
CS 417	Computational Methods and Software	3	_____
CS 471	Operating Systems	3	_____

The major emphasis categories for these courses follows:

Programming: CS 150, 250, 361, 350, 330, 355

Computer Architecture: CS 170, 270, 471

Applied Technology: CS 300T, 410, 411W

Computational Mathematics: CS 381, 390, 417

ELECTIVE COMPUTER SCIENCE COURSES ^ 9 _____

(Consult catalog and advisor)

CS 300/400-level electives excluding CS 333,334, & 382. Up to six credits of work experience (CS 367 or 368) may be used in place of electives

MATHEMATICS AND STATISTICS

Math 211 - Calculus I	4	_____
Math 212 - Calculus II	4	_____
Math 316 - Introductory Linear Algebra	3	_____
Stat 330 - Intro to Probability & Statistics	3	_____

TECHNICAL ELECTIVES

Biol or Chem or OEAS or Phys 6-8 _____
Excluding: Biol 105N, 106N, 110N, 111N, 112N, 113N,
117N or 118N or Phys 101N, 102N, 103N or 104N and all courses that end in a "T")

UPPER DIVISION GENERAL EDUCATION

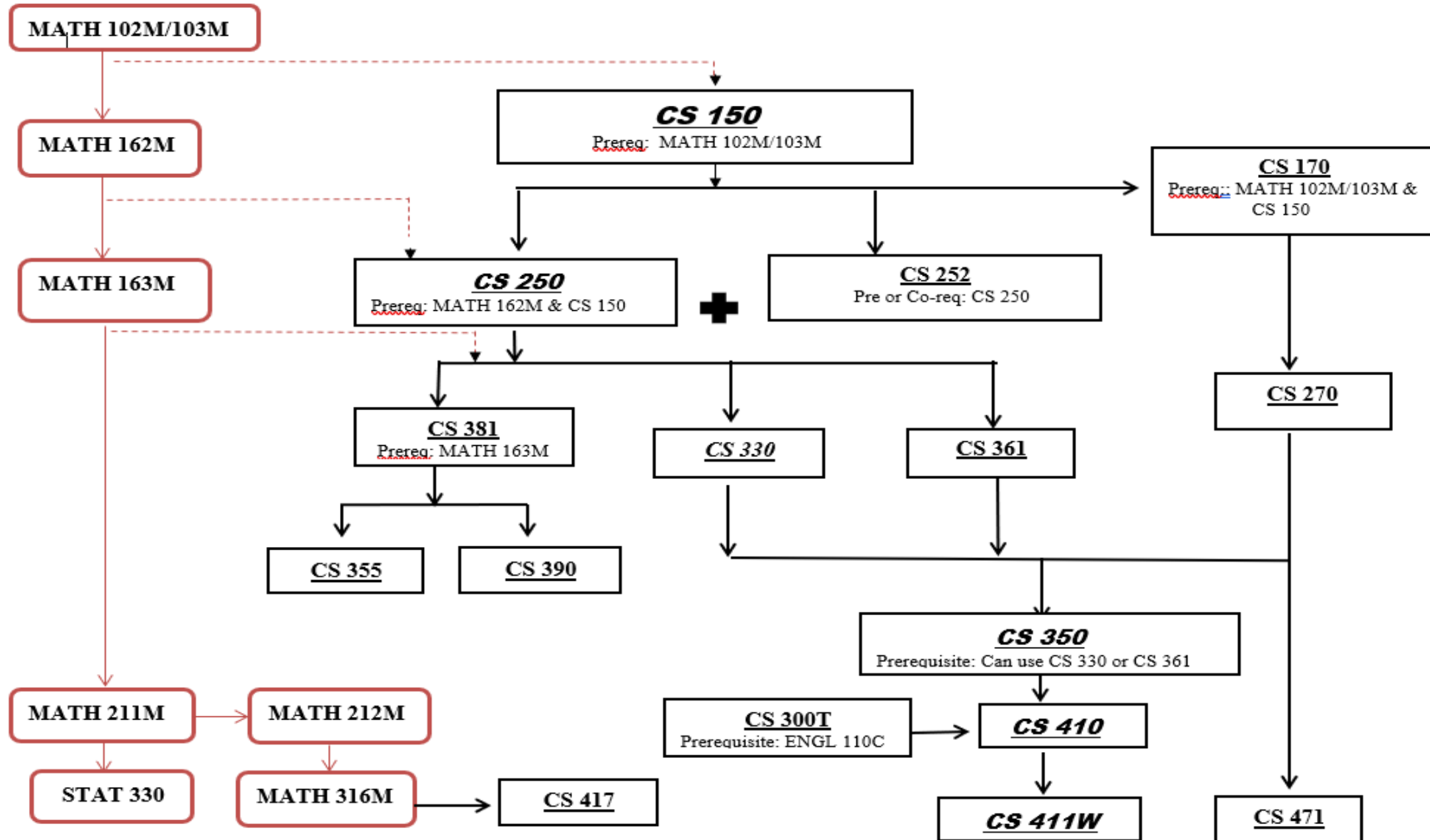
Option A, B, C or D per catalog
To meet this students must follow the requirements for the selected minor option as outlined in the Undergraduate Catalog

^ Grade of C or better is required
= Might need to take prior to Math 211
** Computer Science majors must earn a grade of C or better in all (non-elective) computer science courses required for the major and in all CS prerequisite courses.



Computer Science Degree Requirements

Prerequisite Structure 2020-2021



Four Year Plan for the Computer Science student starting in Math 102/103

Catalog 2020-2021

Degree Schedule for an entering freshman ready for **College Algebra (Math 102/103)** and **English 110C**
Foreign Language Satisfied by High School work.

Fall		Spring	
credits		Freshman	
Gen Ed (Human Behavior)	3	CS 150	4
Math 102/103	3	Math 162	3
Engl 110C	3	Gen Ed (Human Creativity)	3
Gen Ed (COMM 101)	3	Engl 231C	3
Gen Ed (CS 121G)	3	Gen Ed (History)	3
Total Credit Hours	15	Total Credit Hours	16
Sophomore			
CS 250]	4	CS 300T	3
CS 252]	1	Math 211	4
CS 170	3	CS 270	3
Math 163	3	CS 330	3
Gen Ed (Literature)	3	Gen Ed (Nature Science 2)	4
Gen Ed (Nature Science 1)	4		
Total Credit Hours	18	Total Credit Hours	17
Junior			
CS 361	3	CS 350	3
CS 381	3	CS 355	3
Math 212	4	Math 316	3
Gen Ed (Philosophy & Ethics)	3	Tech Elec # 1	3-4
CS Elective # 1	3	CS 390	3
Total Credit Hours	16	Total Credit Hours	15-16
Senior			
CS 410	3	CS 411W	3
CS 417	3	CS Elective # 2	3
Stat 330	3	CS 471	3
Option D/minor	3	Option D/Minor	3
Tech Elec # 2	3-4	CS Elective # 3	3
Total Credit Hours	15-16	Total Credit Hours	15



Lower-Division Requirements (freshman and sophomore years)

I. Skills

Completion of course work in the skills areas ensures that all students possess the basic tools with which to pursue their major interests.

A. Written Communication

Students are advised to consult the department of their major program and the Undergraduate Writing Program Requirements section of this catalog.



Code	Title	Hours
i. ENGL 110C	English Composition (grade of C or better required) The principal objective of the course is to prepare students to be effective writers of the kinds of compositions they will be called on to produce during their college careers. By the end of the course, students should be more mature in their understanding and use of language, should develop efficient writing processes, and should know and demonstrate the qualities of effective composition in a given rhetorical situation. Prerequisites: A passing grade on the Writing Sample Placement Test.	3
ii: Select one of the following:		3
ENGL 211C	English Composition (grade of C or better required) This course emphasizes critical reading, thinking, and writing. Students are introduced to principles of analysis and argumentation and taught the requisite skills that will allow them properly to paraphrase, summarize, and synthesize research in the common modes of academic writing. The course culminates in the preparation of a <u>fully-documented</u> research paper. A student with credit for ENGL 111C cannot receive credit for <u>ENGL 211C</u> . Prerequisites: <u>ENGL 110C</u> with a grade of C or higher.	
ENGL 221C	Introduction to Writing in Business, Education and Social Sciences (grade of C or better required) This course emphasizes critical reading, thinking, and writing as they apply to business, education, and the social sciences. Students are introduced to principles of analysis and argumentation and taught the requisite skills that will allow them to properly paraphrase, summarize, and synthesize research as it applies to and is <u>most commonly found</u> in business, education, and the social sciences. The course culminates in the preparation of a <u>fully-documented</u> research paper. Prerequisites: <u>ENGL 110C</u> .	
ENGL 231C	Introduction to Technical Writing (grade of C or better required) This course emphasizes critical reading, thinking, and writing as they apply to the technical and scientific disciplines. Students are introduced to principles of analysis and argumentation and taught the requisite skills that will allow them properly to paraphrase, summarize, and synthesize research as it applies to and is <u>most commonly found</u> in the technical and scientific communities. The course	



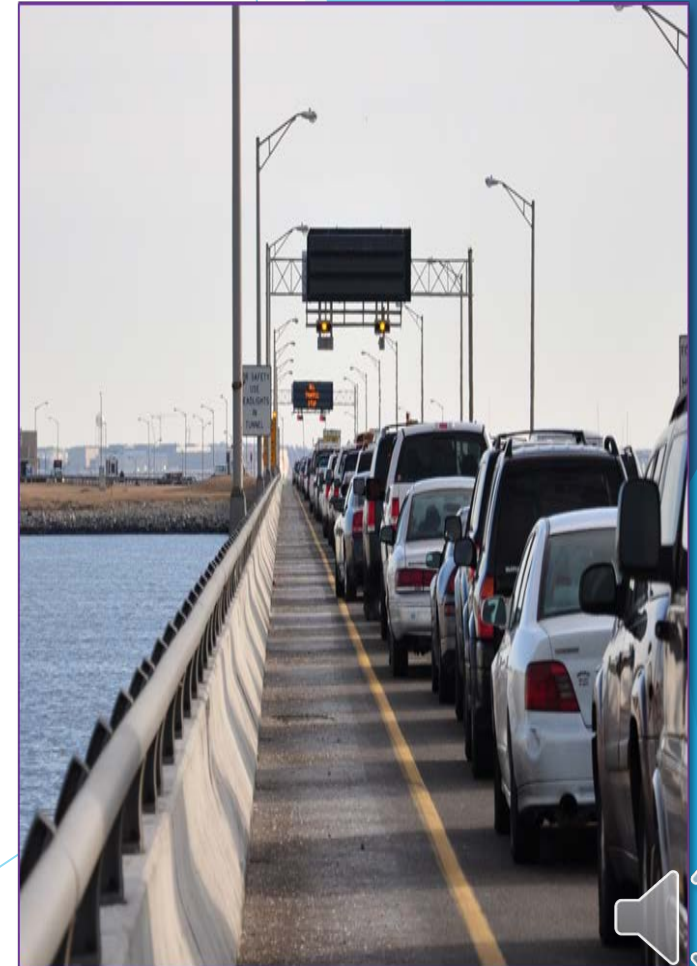
Factors to Consider for Registration:

1. Did you taken IB, AP, Dual enrollment or College credits?
 - _ Have the scores been posted and sent to ODU?
 - _ Were you given credit for these classes?
 - PLEASE let us know if you have taken these classes and you are still awaiting scores or for them to be posted
2. Consider your learning preferences:
 - ▶ Time of day (*morning, afternoon, evening*)
 - ▶ Location (*Main campus, Virginia Beach*)
 - ▶ Number of classes per day (*2-3 is typical*)
3. When will you study?
 - ▶ Allocate 2-3 hours per week of study time per credit hour
(3 credits = 6-9 hours of study time)
4. Other considerations:
 - ▶ Commute times/traffic
 - ▶ Work/Family obligations

Still more to consider:

- ▶ What is plan B? Plan C?

BALANCE is KEY !!!



So, Who Will Help You When You Get Stuck?

*You must help
yourself- don't be
afraid to ask for
assistance!*

ADVISING IS KEY!!



Important Information to Remember:



- ▶ PLEASE READ YOUR EMAILS...
Especially the ones from your advisor, financial aid, instructors, etc.
- ▶ You need to see your advisor once a semester for your academic hold to be removed
- ▶ Prior to your academic advising appointment you **MUST** have completed your Degree Works Plan
- ▶ You **WILL ALWAYS** have an Degree Plan hold, the date is what changes when your hold is removed
- ▶ If you are sent an email from an advisor, FA, tutor etc. about mandatory workshops, meetings, etc... you **MUST** attend
- ▶ Remember: ***I advise BUT YOU decide***

