

COMPUTER SCIENCE †

124 Hours

Freshman Year

CMPS	150	Intro to Cmps	3	CMPS	260	Data Structures I	3
EECE	140	Comp Engineering	3	ENGL	102	Comp and Lit I	3
ENGL	101	Rhet and Comp	3	MATH	301	Calculus II	4
MATH	270	Calculus I	4			Elective(ARTS) ¹	3
		Elective(HIST)	3			Elective (BHSC) ^{2,9}	3
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			16				16

Sophomore Year

CMPS	261	Data Structures II	3	CMPS	310	Computers in Society	2
CMPS	351	Assembly Programming	3	CMPS	341	Formal Foundations	3
MATH	362	Linear Algebra	3			Elective (AHBS) ¹⁰	3
		Elective (CMCN) ⁴	3			Elective (SCI) ^{5,9}	4
		Elective (SCI) ^{5,9}	4			Concentration Elective ⁶	3
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			16				15

Junior Year

CMPS	430	Computer Architecture	3	CMPS	440	Theory of Computation	3
CMPS	453	Software Engineering	3	CMPS	455	Operating Systems	3
STAT	427	Statistical Methods	3	STAT	454	Intro. to Operations Research	3
		Elective (LIT) ³	3	ENGL	365	Technical Writing	3
		Concentration Elective ⁶	3			Elective (SCI) ^{5,9}	4
		Free Elective ⁸	2				
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			17				16

Senior Year

CMPS	450	Programming Languages	3			Elective (CMPS) ⁷	3
CMPS	460	Database	3			Elective (CMPS) ⁷	3
		Concentration Elective ⁶	3			Concentration Elective ⁶	3
		Concentration Elective ⁶	3			Elective (BHSC) ^{2,9}	3
		Free Elective ⁸	2			Free Elective ⁸	2
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			14				14

†This program is accredited by the Computing Sciences Accreditation Board (CSAB/ABET). Students will be allowed to enter Upper Division if they have earned a grade of C or better in CMPS 150, 260, 261, as well as MATH 270, 301. To qualify for graduation a student must earn a grade of C or better in all CMPS, MATH, STAT, and EECE courses which are applied to the degree, as well as all concentration electives.

¹ Chosen from Dance, Music, Theater, or Visual Arts.

² Chosen from Anthropology, Geography, Economics, Political Science, Psychology, or Sociology, with at least one course at the 200-level or above.

³ Chosen from advisor approved list of English.

⁴ CMCN 101, 200, 222 or 310.

⁵ Must include both biological and physical sciences. All three courses must be courses for majors. At least two of these courses must be in a two-semester sequence with labs.

⁶ Concentrations: video game design and development, cognitive science, information technology, scientific computing, and computer engineering. A list of courses that satisfy concentration electives is available in the CMPS department.

⁷ At least 3 hours of CMPS electives must be at the 400-level.

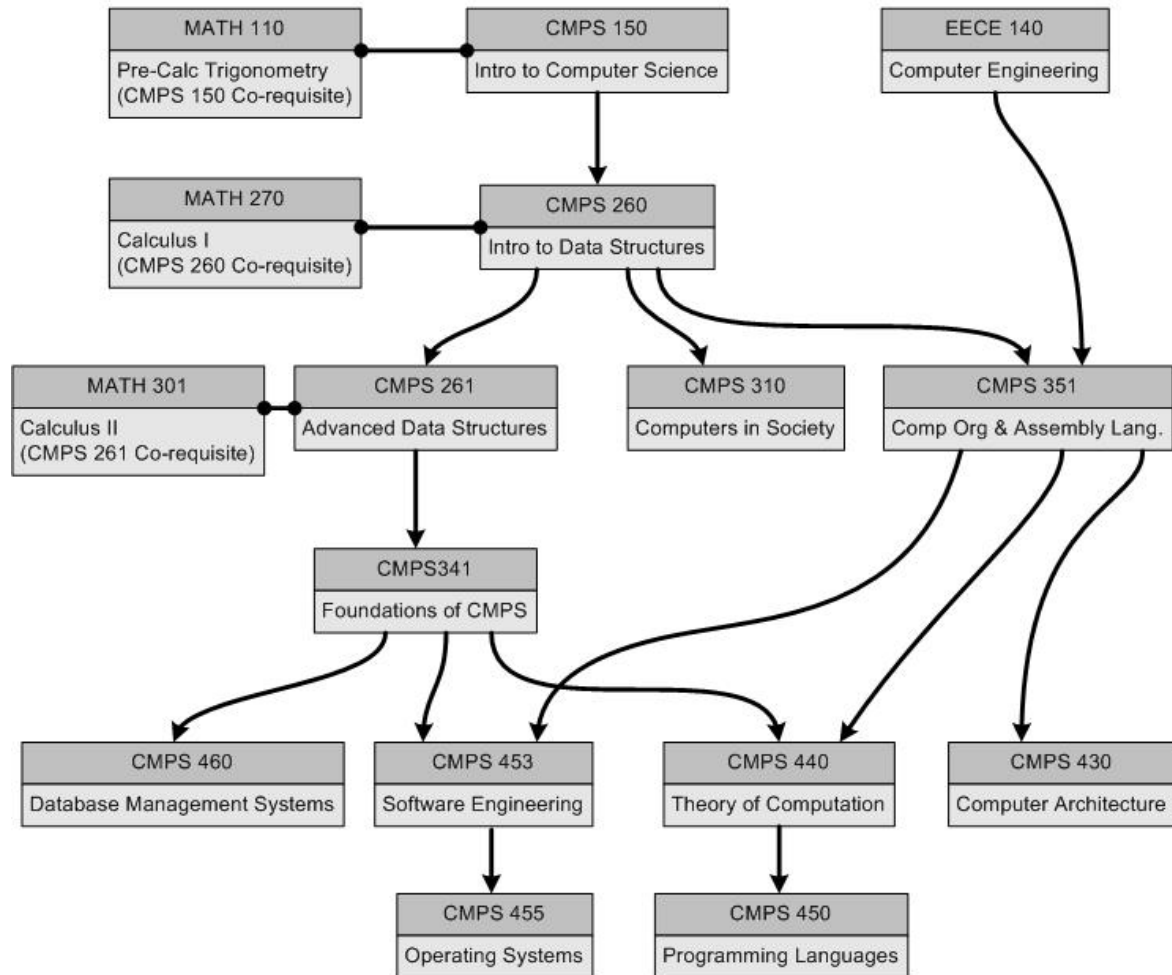
⁸ Students may apply at most two KNEA courses to free electives.

⁹ Selection may depend on concentration.

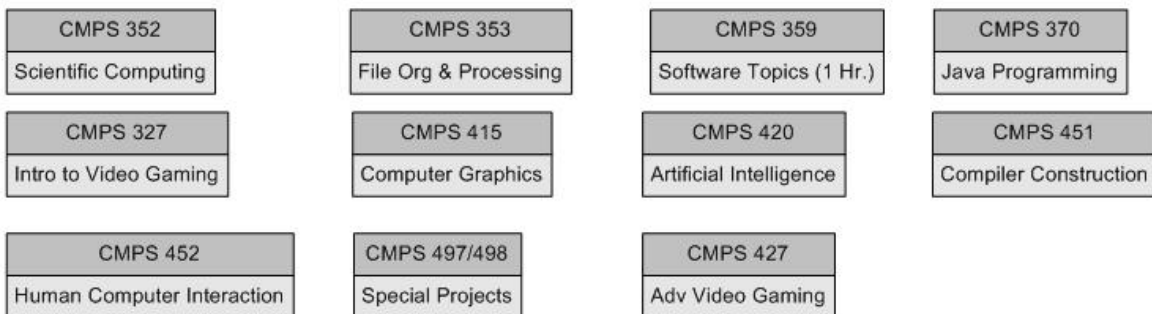
¹⁰ Chosen from Arts, Humanities or Behavioral Sciences.

SUMMARY OF COMPUTER SCIENCE REQUIREMENTS

Computer Science Core and Pre-requisite Structure



COMPUTER SCIENCE ELECTIVES



SCIENCE ELECTIVES

Physical Sciences

CHEM 107 3hrs
CHEM 108 3hrs
CHEM 115 2hrs

GEOL 111 4hrs
GEOL 112 4hrs

PHYS 201 4hrs
PHYS 202 4hrs
PHYS 215 1hr
PHYS 216 1hr

Biological Sciences

BIOL 101 3hrs
BIOL 102 3hrs
BIOL 103 1hr
BIOL 104 1hr

A student must select one sequence of courses with the respective labs. If the Physical Science sequence is chosen, then the student must select a Biological Science as the third science course, otherwise the student must select a Physical Science. Students must complete a minimum of 12 credit hours of science.

Students in the Electrical Engineering area of concentration must take Physics as the lab sequence and one of the Biology courses.

Notes:

1. CHEM 115 has CHEM 108 as a pre-requisite; this means that Chemistry cannot be taken as a Physical Science if the Biology science sequence was chosen.
2. Students in the Electrical Engineering area of concentration must earn a grade of C or better in PHYS 202 because it is a pre-requisite of EECE 353.
3. If Biology is not chosen for the lab sequence, the lab is not required if the credit hour is not needed to complete 12 credit hours in the sciences.
4. The second Physics course requires Calculus III as a co-requisite.

COMPUTER SCIENCE ELECTIVES

All concentration areas require 9 credit hours of Computer Science electives. Six of these 9 hours must fulfill the area of concentration requirements. Three hours are to be chosen from the available CMPS electives, but only 3 of these 9 hours may be at the 300-level.

Note that students who wish to enroll for a Special Project (CMPS 497, 498) must have completed CMPS 261, CMPS 341, CMPS 351, and MATH 301. The student must also have an overall GPA of 3.0 or better.

LITERATURE ELECTIVES

ENGLISH - 201, 202, 203, 204, 205, 206, 215, 216, 312, 320, 321, 322, 333, 341, 372, 380, 400G, 401G, 402G, 403G, 404G, 407G, 411G, 412G, 413G, 414G, 417G, 418G, 419G, 421G, 422G, 423G, 424G, 426G, 429G, 430G, 433G, 434G, 435G, 437G, 439G, 441G, 442G, 450G, 460G, 466G, 496G.

ARTS ELECTIVES

DANCE - 101, 102, 111, 112

MUSIC - 300, 301, 302, 303, 304, 308, 362, 425, 464, 465

Other studio courses may fulfill the core requirements. Approval for such substitutions may be obtained from the Office of Academic Planning and Faculty Developments, Rm. 315, Martin Hall.

THEATRE - 161, 261, 457, 458

VISUAL ARTS – 120, 121, 122, 215, 220, 235, 321, 323, 335, 422

Other studio and art history courses taken with the permission of the instructor may fulfill the core requirement for students in certain majors. Applicability and approval for such substitutions must be obtained from both the Department of Visual Arts (Rm. 310, Fletcher Hall), and the Office of Academic Planning and Faculty Development (Rm. 315, Martin Hall).

HUMANITIES ELECTIVES

COMMUNICATION - 101, 200, 222, 310

FOREIGN LANGUAGES

French Literature courses: 311, 431G, 441G, 471, 472, 481G, 491G, 492G,

Non-literature language courses above the introductory level: 201, 202, 361, 362.

German Literature courses: 311, 405G, 441-442G, 471-472G

Non-literature courses above the introductory level: 201-202.

Latin Literature courses: LATN 301, 302

Non-literature courses above the introductory level: 201-202.

Russian Literature courses: 201, 202

Spanish Literature courses: SPAN 311, 441G, 442G, 480G,

Non-literature courses above the introductory level: 201-202, 358-359.

LITERATURE - See above section entitled LITERATURE - English.

HISTORY - All courses except HIST 390 and 400-level courses

HUMANITIES - All courses except 400-level courses

PHILOSOPHY - All courses

BEHAVIORAL SCIENCES ELECTIVES

ANTHROPOLOGY - 201, 202, 303, 304, 310, 375, 385, 386

ECONOMICS - 201, 202, 300

GEOGRAPHY - All courses except GEOG 375 and 400-level courses

POLITICAL SCIENCE - All courses except POLS 398 and 400-level courses

PSYCHOLOGY - 110, 210, 311, 312, 313, 360, 370, 405

SOCIOLOGY - 100, 241, 305, 310, 325, 350, 362, 364, 370, 395

If you are considering other options, check with the advisor.

ARTS, HUMANITIES AND BEHAVIORAL SCIENCES ELECTIVES

Any of the courses listed for:

Arts
Humanities
and Behavioral Sciences

NON-CREDIT COURSES

No Computer Science major may receive credit for ANY of the following:

1. ACSK courses
2. ADOS All courses except ADOS 420
3. BSAT 101, 205, 206, 306, 311, 321
4. BCOM All courses
6. CMPS All courses for non-majors
7. ENGR 101
8. ITEC 101
9. MATH - No course that is a prerequisite to a required course;
92,100,105,107,109,110,117, 201,206,210,217,
250,317,411,412,430,435,463,465,466,470
10. Any KNEA courses beyond 4 credit hours
11. QMET 251, 252, 450
12. STAT 214.

ENTRANCE INTO UPPER DIVISION

Upper Division classification is required to enroll in any 400-level courses. To enter Upper Division, you need to complete 30 hours of non-remedial courses AND have completed the following courses with a grade of C or better:

ENGL 102, MATH 301, CMPS 261

Students must be in Upper Division to enroll in 400-level courses.

SEMESTER COURSE OFFERINGS

FALL	SPRING
CMPS 150	CMPS 150
CMPS 260	CMPS 260
CMPS 261	CMPS 261
<u>CMPS 327</u>	<u>CMPS 427</u>
CMPS 341	CMPS 341
CMPS 351	CMPS 351
<u>CMPS 352</u>	<u>CMPS 353</u>
CMPS 359	CMPS 359
<u>CMPS 415</u>	CMPS 370
<u>CMPS 420</u>	CMPS 430
CMPS 430	<u>CMPS 440</u>
<u>CMPS 450</u>	<u>CMPS 451</u>
<u>CMPS 453</u>	CMPS 455
CMPS 455	<u>CMPS 460</u>
	<u>CMPS 499</u>

Advising

The Computer Science Department has established an advising structure that is supported by the Computer Science faculty and graduate students.

Students who have not successfully completed CMPS 150 will be advised by one of the advisors in the Conference Center, Room 410.

Students who have completed CMPS 150 and are eligible to take CMPS 260 will be advised by faculty members. You will be assigned to one of the faculty members by your last name. This assignment will be mailed out prior to the early registration advising period.

Note: During **late** advising, at the beginning of each semester, **all** students will be advised in the Conference Center, Room 410.

Appointments for Advising

If you have not completed, or are currently enrolled in, CMPS 150 you must make an appointment on the schedule posted on the door of Conference Center, Room 410.

If you have successfully completed CMPS 150, you must make an appointment with your assigned faculty advisor.

Schedule of Classes

You can pick up a schedule of classes at the Registrar's office in Martin Hall. Preferably you should access the Schedule of Classes online because it is more accurate; it includes all changes made to the schedule since it was submitted for printing. Use this information to complete a trial schedule **before your appointment**.

Your advisor will clear your advising hold after you have completed an advising session with him/her.

Advantages of Early Registration

Scheduling is not something that should be done at the last minute. Taking some time to choose your classes wisely will help you graduate on schedule and also improves your performance each semester by distributing the workload of difficult project courses.

Information about Courses and Curriculum

Prerequisite – A prerequisite is an academic requirement which must be satisfied prior to enrolling in a course.

Corequisite – A corequisite is an academic requirement which must be satisfied concurrent with enrolling in a course. A student requesting a course must be currently enrolled in all corequisites listed for that course or must otherwise satisfy the instructor and the head of the department that he/she has had the equivalent preparation.

To obtain information about courses and the curriculum, consult the UL Lafayette catalog, the Computer Science Web Page (<http://www.louisiana.edu/Academic/Sciences/CMPS>), or this *Advising Handout*. These sources of information include the curriculum, the prerequisite structure of the computer science core, courses which may be chosen to fulfill the various degree requirements, regular fall and spring course offerings, and courses which do not count towards your degree.

ACT SCORES

ENGLISH			MATHEMATICS		
Old	Enhanced	COURSE	Old	Enhanced	COURSE
00 – 14	00 – 17	ENGL 90	00 – 17	00 – 16	Developmental Math at Community College
15 – 24	18 – 27	ENGL 101		17	MATH 92
25 +	28+	ENGL 115	18 – 20	18 – 20	MATH 100
				21	MATH 105
			21 – 27	22 – 25	MATH 109 or 110
				26 – 29	MATH 109 & 110
			28+	30+	MATH 270

1. Students who need remedial work according to the ACT scores **must** schedule these courses prior to scheduling regular courses.
 2. Student who earned an English ACT score in the range of 0 –14 (old) or 0 –17 (enhanced) will not be allowed to take any courses other than the remedial courses, a Mathematics course and a Physical Education course.
 3. Students who earned a Math ACT score of 20 or less may not enroll in any Biology, Chemistry, or Physics courses.
 4. Students who earned an English ACT score of 17 or less may not enroll in any History courses.
 5. Students who earned a Math ACT score of 26 (Enhanced) or better may take the Advanced Placement Test for Mathematics.
 6. Students with a science ACT score of 28 or above are eligible to take the Advanced Placement Exam for Chemistry.
 7. Students with a science ACT score of 25 or above are eligible to take the Advanced Placement for Physics.
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