

LDCS Exit Workshop

For Students Transitioning from Lower Division to the CS Department



The College of Engineering Expects...

**Undergraduate
Research**

**Intern
or Coop**

**Engineering
Student
Organization**

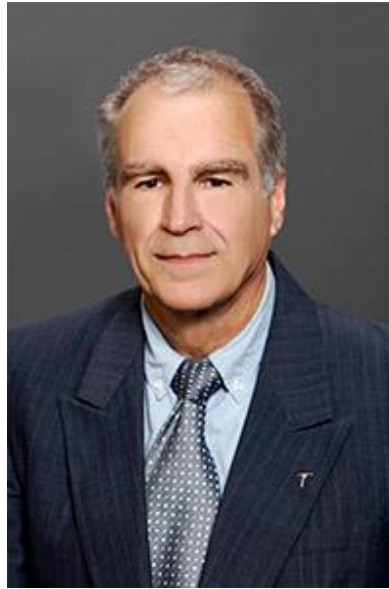
**and
Team
Competitions**

**3.5
GPA**

Computer Science Department



Dr. Ann Q. Gates
Department Chair



Dr. Luc Longpré
Program Director



Maly Fong
Program Coordinator

ORGS:



Chemistry & Computer
Science Building
Room 3.1100
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CATALOG: CS Degree Plan

- **120 Credit Hours**
 - 2 concentrations: Secure Cyber Systems, Software Engineering
- **What is a degree plan?**
 - The requirements a student must complete to graduate.
- **Core Curriculum**
 - Must complete a 45-semester credit hour core curriculum.
 - See 1-9



CATALOG: CS Degree Plan

Block A
University Core (Texas
requirements)
45-credit hours



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A Core Curriculum (45 SCH) (minimum of "C" grade required)		Semester Completed	Final Grade	SCH	Sub #
1 Communication (6 credit hours required)					
RWS 1301*	Rhetoric and Composition I				
RWS 1302*	Rhetoric and Composition II				
2 Mathematics (4)					
MATH 1411*	Calculus I				
3 Life and Physical Sciences (8) *** Select and circle one					
PHYS 2420*	Introductory Mechanics				
ASTR 1307* + 1107*, BIOL 1305* + 1107*, CHEM 1305* + 1105*, GEOL 1313* + 1103*, PHYS 2421*					
4 Language, Philosophy, and Culture (3) Select and circle one					
ENGL 2311*, 2312*, 2313*, 2314*, 2318*, FREN 2322*, HIST 2301*, 2302*, PHIL 1301*, 2306*, RS 1301*, SPAN 2340*, WS 2300*, 2350*					
5 Creative Arts (3) Select and circle one					
ART 1300*, ARTH 1305*, 1306*, DANC 1304*, FILM 1390*, MUSL 1321*, 1324*, 1327*, THEA 1313*					
6 American History (6)					
HIST 1301*	History of the U.S. to 1865				
HIST 1302*	History of the U.S. since 1865				
7 Government/Political Science (6) – all 6 SCH must be completed at the same institution					
POLS 2310*	Introduction to Politics				
POLS 2311*	American Govt. & Politics				
8 Social and Behavioral Sciences (3) Select and circle one					
ANTH 1301*, 1302*, 1310*, 2320*, COMM 2350*, 2372*, ECON 2303*, 2304*, EDPC 1301*, EDU 1342*, ENGL 2320*, GEOG 1310*, LING 2320*, PSYC 1301*, SOCI 1301*, 1310*, CE 2326*					
9 Component Area Option (6) Take UNIV 1301 and choose one of the second option:					
UNIV 1301*	Foundations of Engineering				
CS 1310* ^a , BUSN 1301*, COMM 1301*, 1302*, CS 1320*, SCI 1301*					

CATALOG: CS Degree Plan

B Foundational Math & Science (12 SCH)		Semester Completed	Final Grade	SCH	Sub #
MATH 1312*	Calculus II				
MATH 2300*	Discrete Mathematics				
MATH 3323*	Matrix Algebra				
STAT 3320	Probab & Stat for Comp Sci				

Block B
Math
Requirements

Block F
Free Elective

Block G
Math/Science Elective

F Free Elective (4 SCH) -- any college-level courses offered by the colleges of Liberal Arts, Business, Science, or Engineering	Semester Completed	Final Grade	SCH	Sub #
G Additional Mathematics or Science Option (3 SCH) ***** Choose one course from Option A or B	Semester Completed	Final Grade	SCH	Sub #

NOTES:

a – If no previous computer experience.

* C or better required

*** Official substitution form available <https://www.utep.edu/engineering/student-resources/student-resources-forms.html>

*** Students must complete PHYS 2420 (in the Life and Physical Science Section)

*** CS 1190, CS 1290, CS 3000 or any CS 4000 level course. No more than six credit hours of CS xx90, CS 4181, CS 4371, CS 4X73, CS 4392 and/or CS 4393 (in any combination) can count for technical elective

***** Option A: Math-MATH 2313, MATH 2325, MATH 2326, MATH 3320, MATH 3325, MATH 4329, STAT 3381, STAT 4380, STAT 4385

Option B: Science-Any Science in the core block



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CATALOG: CS Degree Plan

C Major: Required Lower Division Courses (15 SCH)				Semester Completed	Final Grade	SCH	Sub #
CS 1301*	Introduction to Computer Science						
CS 1101*	Introduction to Computer Science Lab						
CS 2401*	Elementary Data Structures and Algorithms						
EE 2369*	Digital Systems Design I						
EE 2169*	Digital Systems Design I Lab						
CS 2302*	Data Structures						
D Major: Required Upper Division Courses (26 SCH)				Semester Completed	Final Grade	SCH	Sub #
CS 3195	Junior Professional Orientation						
CS 3331*	Advanced Object-Oriented Programming						
CS 3350	Automata, Computability, and Formal Languages						
CS 3360	Design and Implementation of Prog. Languages						
CS 3432*	Computer Architecture I: Basic Comp. Org. & Design						
CS 4310*	Software Engineering: Requirements Engineering						
CS 4311	Software Engineering: Design and Implementation						
CS 4342	Database Management						
CS 4375	Theory of Operating Systems						
E Technical Electives (15 SCH)****				Semester Completed	Final Grade	SCH	Sub #

Block **C**
Lower Division CS Courses

Block **D**
Upper Division CS Courses

Block **E**
Technical Electives

CATALOG: CS Concentrations

Secure Cyber Systems

[CS 4316](#) Computer Networks
[CS 4318](#) Wireless Networks
[CS 4351](#) Computer Security
[CS 4379](#) Software Reverse Engineering
[CS 4177](#) Software Vulnerabilities

Software Engineering

[CS 4374](#) Software Construction
[CS 4387](#) Software Integration and V&V
- Choose One -
[CS 4330](#) Mobile App Development
[CS 4339](#) Secure Web-Based Systems
[CS 4371](#) Computer Science Problems
[CS 4373](#) Computer Science Internship
[CS 4381](#) Topics in Software Engineering



CATALOG: Policies & Procedures

- **Pre-requisite** - A course or other requirement that a student must take prior to
- **Co-requisite** - A course or other requirement that a student must take at the same time
- **CS Courses Example:**

Course	Prerequisite	Corequisite
CS 1301	MATH 1508 or MATH 1411	CS 1101
CS 2401	CS 1301 and CS 1101	-
CS 2302	CS 2401 and MATH 2300	-



CATALOG: Policies & Procedures

- **What is the UTEP Catalog?**
 - *“The catalog introduces you to our policies and procedures, degrees, majors and minors, and curricula.”*
- **Where to find it?**
 - <http://catalog.utep.edu/undergrad/>



CATALOG: Policies & Procedures

- **Which catalog do I have to follow?**
 - *“...the catalog in effect at the time of his or her admission...”*
 - Transfer: *“...can select a catalog that was in effect prior to the first semester of enrollment...”*
- **How long is the catalog I choose to follow valid?**
 - *“A student must complete all requirements within seven (7) years...”*



CATALOG: Course Policies

- **Six-Maximum Drop**

- All students are limited to six (6) course drops.
- This does not apply to courses dropped prior to census day or complete semester withdrawal.

- **D/F Course Repeat**

- Applies to all 1000 (FR) and 2000 (SOPH) level courses.
- The failing grade is disregarded from the overall GPA once.
- Any engineering and science course can be taken up to (3) times.



Strategic Course Selection

- **1st Priority:** UNIV 1301 course
- **2nd Priority:** Math course
- **3rd Priority:** ENGR/CS courses
- **4th Priority:** RWS 1301 & 1302 course
- **5th Priority:** Science course
- **6th Priority:** Core courses



Priorities vs. Hours Per Week

Credit Hours	Study Hours	"School is Work" Hours	Sleep Hours	Work Hours
15	45	60	56	0
12	36	48	56	< 20
3 - 6	9 - 18	12-24	56	40

= credit hours x 3

= credit hours + study
hours

= 8 hours of sleep x 7 days
per week

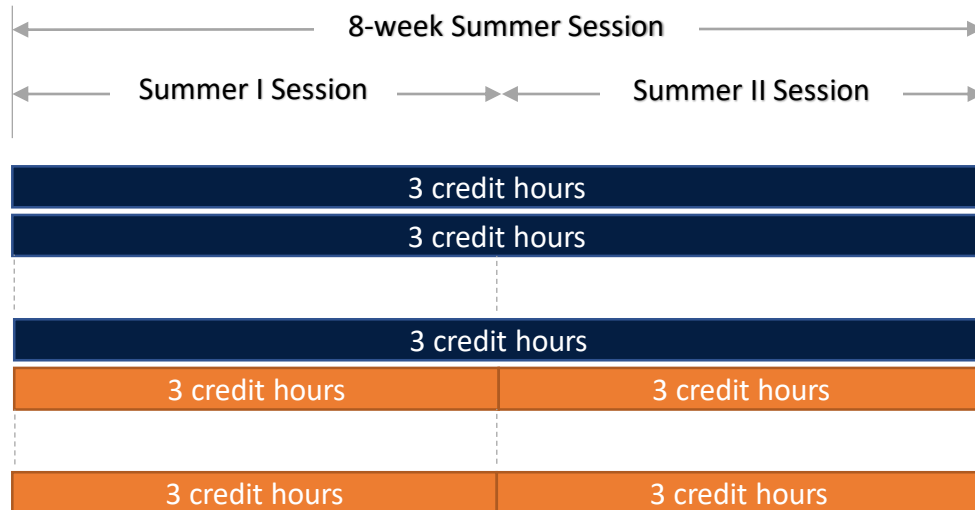
Is this a priority?



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Hours Per Semester

Summer Maximum Classes Enrollment



Maximum Class Load

Semester	Max. Credit Hours	If combined with
Fall	21	N/A
Wintermester	6	
Spring	21	Wintermester, 24
Maymester	6	
Summer	9	Maymester, 15



Finance

- **How Much will You Pay in Tuition for Fall 2019?**

- Resident: 12 hrs - \$3,796.84 15 hrs - \$4,661.95
- Non-Resident: 12 hrs - \$ 10,016.80 15 hrs - \$ 12,418.15
 - Doesn't include these fees: new student, incidental, course related & individual major

- **How to Pay for College?**

1. Financial Aid and Scholarships...Apply, Apply, Apply!
2. Internships
3. EPCC / Consortium Agreement
4. Loans
5. Part-time work



UTEP CS Department Advising

- **Step 1.** Check you e-mail to see who your advisor is.
- **Step 2.** Complete an **Academic Advising Form** before seeing your advisor
- **Step 3.** Schedule an appointment with your faculty advisor
- **Step 4.** Get 1-on-1 advising
- **Step 4.** Bring the yellow copy of your signed advising form to the CS department to get your hold removed
- **Step 5.** Register!



For more information visit:

[UTEP Engineering->CS->Advising](#)



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QUESTIONS?



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