



# Computer Science and Engineering

Freshmen and Transfers







# Who To Contact When



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# Who to contact when

- Unless all other methods have been exhausted, students (and their families) should not directly contact the Dean's office to resolve issues. Respecting this boundary is very important.
- All messages are sent back to the departments.

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# Who to contact when

- If you have concerns or conflicts regarding your classes, please contact the instructor first.
- Teaching assistants are excellent resources, but they do not have primary responsibility for courses or issues within.
- The Department Head or Associate Department Head of the *respective department* should only be contacted when all other outlets have been exhausted.

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# Who to contact when

- If you would like to discuss decisions regarding your curriculum (degree planning, dropping classes or changing your schedule, etc.), you should first contact your department's advising team.
- All advisors within a department will give the same responses, so only one meeting will be sufficient.
- If you need greater resolution, please contact your Academic Advising Coordinator.





# Advising Expectations



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# Advising Expectations

- The purpose of your NSC is just to get the semester started, to get students acquainted with their degree and programs at a basic level.
- We will have group meetings starting a few weeks after classes begin.

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# Advising Expectations

- Attend a group meeting by mid-semester
- Be aware of the university's calendar and all relevant deadlines
- Be aware of the university, college, and department rules for scholastic probation
- Check their university email on a daily basis
- Adhere to the Aggie Honor Code
- Be aware of and adhere to the university's Student Rules
- Follow all course policies and meet prerequisites
- Make satisfactory degree progress every semester
- Come prepared to each advising appointment
- Be aware of and use available advising resources





# Degree Overview



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# Who are we?

We are the Department of Computer Science and Engineering (CSCE)

- We are one of many departments within the College of Engineering (like civil, mechanical, etc.)
- We have three majors/degrees
  - BS in Computer Science (BS-CPSC)
  - BS in Computer Engineering (BS-CPEN)
  - BA in Computer Science (BA-CPSC)

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# Degree plans

- BS-CPSC: 126 credits
  - BS-CPEN-CS: 128 degrees
  - BA-CPSC: 120 credits
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- Note: student rule 14.5 allows a transfer student to remain on the catalog that corresponds to when the student first enrolled in the institution from which the student transferred.

# BS-CPSC degree (sample)

Texas A&M University -- College of Engineering -- Department of Computer Science and Engineering  
Degree Plan for the Bachelor of Science in Computer Science (BS-CPSC)  
Valid for the Fall 2023 Catalog #146 (126 Credit Hours)

Major Coursework (30 Credit Hours)			
Course	Hrs.	TRUE	Notes
CSCE 120	3		Can replace with CSCE 121 if needed
CSCE 181	1		
CSCE 221	4		
CSCE 222	3		
CSCE 312	4		
CSCE 313	4		
CSCE 314	3		
CSCE 331	4		University Writing Requirement
CSCE 481	1		
CSCE 482	3		University Writing Requirement
Supporting Coursework (46 Credit Hours)			
Course	Hrs.	TRUE	Notes
Emphasis Area Elective	3		12 credit hours total; Must be approved by an advisor and in a single cohesive area outside of, but applicable to, computing (see details in full packet)
Emphasis Area Elective	3		
Emphasis Area Elective	3		
Emphasis Area Elective	3		
ENGR 102	2		Required before entry into CPSC
ENGR or PHYS 216	2		Required before entry into CPSC
Theory Directed Elective (CSCE 411)	3		
Systems Directed Elective	3		
Software Directed Elective	3		
Information & Intelligent Systems Directed Elective	3		
CSCE Tracked Elective	3		From any of the 4 available tracks
CSCE Tracked Elective	3		From any of the 4 available tracks
CSCE Elective	3		Tracked, untracked, CSCE 491, or ENGR 385
STAT 211	3		
MATH 304	3		
MATH 251, 308, or STAT 212	3		
Communication (6 Credit Hours)			
Course	Hrs.	TRUE	Notes
ENGL 103 or 104	3		
COMM 203, 205, or ENGL 210	3		
Mathematics (8 Credit Hours)			
Course	Hrs.	TRUE	Notes
MATH 151	4		Required before entry into CPSC
MATH 152	4		Required before entry into CPSC
Life and Physical Sciences (14 Credit Hours)			
Course	Hrs.	TRUE	Notes
CHEM 119 or CHEM 107 + 117	4		Required before entry into CPSC
PHYS 206	3		Required before entry into CPSC
Science Elective	3		7 credit hours total; Must be from approved list (see details in full packet)
Science Elective	4		

Language, Philosophy & Culture (3 Credit Hours)			
Course	Hrs.	TRUE	Notes
CORE Language, Philosophy & Culture *	3		Any courses with the [KUPC] attribute, see <a href="http://core.tamu.edu">core.tamu.edu</a>
Creative Arts (3 Credit Hours)			
Course	Hrs.	TRUE	Notes
CORE Creative Arts *	3		Any courses with the [KCRA] attribute, see <a href="http://core.tamu.edu">core.tamu.edu</a>
Social and Behavioral Sciences (3 Credit Hours)			
Course	Hrs.	TRUE	Notes
Social and Behavioral Sciences *	3		Any courses with the [KSOC] attribute, see <a href="http://core.tamu.edu">core.tamu.edu</a>
Citizenship (12 Credit Hours)			
Course	Hrs.	TRUE	Notes
CORE American History	3		Any courses with the [KHIST] attribute, see <a href="http://core.tamu.edu">core.tamu.edu</a>
CORE American History	3		
POLS 207	3		
General Electives (1 Credit Hour)			
Course	Hrs.	TRUE	Notes
General Elective	1		Any one hour undergraduate credit
High Impact Experience (0 Credit Hours)			
Course	Hrs.	TRUE	Notes
CSCE 399	0		Also referred to as ENGR[x]
International & Culture Diversity/Cultural Discourse			
Course	Hrs.	TRUE	Notes
International & Culture Diversity (ICD)	(3)		Any courses with the [KICD] attribute, see <a href="http://core.tamu.edu">core.tamu.edu</a>
Cultural Discourse (CD)	(3)		Any courses with the [KUCD] attribute, see <a href="http://core.tamu.edu">core.tamu.edu</a>
Foreign Language (0 Credit Hours)			
Course	Hrs.	TRUE	Notes
2 years of same foreign language			2 years high school or 2 terms college

Degree Plan Notes	
Disclaimer: This is a planning tool only. Use NAVIGATE to make advising appointments and talk to your advisor.	
Degree Planners are due each year between March 1st and September 30th. They must specify all credits needed for the degree. Provide the concentration area and any planned transfer credits in the planner's comments section.	
Prerequisites must be completed before taking courses, co-requisites must be completed before or may be taken concurrently, see <a href="http://catalog.tamu.edu">catalog.tamu.edu</a> for current requirements and restrictions.	
<b>BOLD and shaded background = C or higher grade required.</b>	
<b>BOLD, italics, and shaded background = required for ETAM eligibility; C or higher grade required.</b>	
* = Can overlap with ICD/CD requirements.	
TAMU and Major GPA >= 2.0 required for graduation.	

Created on 8/4/23

- ❖ Courses in blue require a C or better for completion.
- ❖ Courses in green box can overlap with an ICD or a CD credit.
- ❖ Visit your advising Canvas page for
  - ❖ Science Options
  - ❖ Supporting/emphasis area
  - ❖ Technical electives



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# BS-CPSC Technical Electives

## Track 1: Algorithms and Theory

- **CSCE411: Analysis of Algorithms**
- CSCE433: Formal Languages and Automata
- CSCE440: Quantum Algorithms
- CSCE442: Scientific Programming

*Although it is called an elective, CSCE411 is a firm degree requirement and a prerequisite for CSCE482 (senior capstone).*

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# BS-CPSC Technical Electives

## Track 2: Systems

- CSCE410: Operating Systems
- CSCE412: Cloud Computing
- CSCE416: Hardware Design and Verification
- CSCE426: Security of Embedded Systems
- CSCE456: Real-time Computing
- CSCE461: Embedded Systems for Medical Applications
- CSCE462: Microcomputer Systems
- CSCE463: Networks and Distributed Systems
- CSCE464: Wireless and Mobile Systems
- CSCE465: Computer and Network Security
- CSCE469: Advanced Computer Architecture

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# BS-CPSC Technical Electives

## Track 3: Software

- CSCE429: Software Development, Globalization, and Culture Abroad
- CSCE430: Problem Solving Design
- CSCE431: Software Engineering
- CSCE434: Compiler Design
- CSCE435: Parallel Computing
- CSCE438: Distributed Object Programming
- CSCE451: Software Reverse Engineering

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# BS-CPSC Technical Electives

## Track 4: Information and Intelligence Systems

- CSCE305: Computational Data Science
- CSCE310: Database Systems
- CSCE320: Principles of Data Science
- CSCE420: Artificial Intelligence
- CSCE421: Machine Learning
- CSCE432: Accessible Computing
- CSCE436: Computer-Human Interaction
- CSCE439: Data Analytics for Cybersecurity
- CSCE441: Computer Graphics
- CSCE443: Game Development



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# BS-CPSC Technical Electives, continued

- CSCE444: Structures of Interactive Information
- CSCE445: Computers and New Media
- CSCE446: Virtual Reality
- CSCE447: Data Visualization
- CSCE448: Computational Photography
- CSCE449: Applied Cryptography
- CSCE450: Computer Animation
- CSCE452: Robotics and Spatial Intelligence
- CSCE470: Information Storage and Retrieval

# BS-CPSC 4-year flowchart

Example Four Year Flowchart for the BS in Computer Science 2023 Catalog

Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
ENGR 102 (2)	ENGR 216/PHYS 216 (2)	CSCE 120 (3)	CSCE 221 (4)	CSCE 411 (3)	CSCE 482 (3)		
CHEM 107 + 117 (4)	PHYS 206 (3)	CSCE 222 (3)	CSCE 312 (4)	CSCE 481 (1)	CSCE Elective (3)		
MATH 151 (4)	MATH 152 (4)	CSCE 181 (1)	CSCE 314 (3)	CSCE 331 (4)	CSCE Elective (3)	CSCE Elective (3)	
ENGL 103/104 (3)	UCC (3)	MATH 304 (4)	COMM 203, 205, or ENGL 210 (3)	STAT 211 (3)	MATH 251, 308 or STAT 212 (3)	UCC (3)	UCC (3)
UCC (3)	UCC (3)	Science (3)	Emphasis (3)	UCC (3)	Science (3)	UCC (3)	UCC (3)
		General (1)	Emphasis (3)	Emphasis (3)	Emphasis (3)	Emphasis (3)	Emphasis (3)
16 Credits	15 Credits	15 Credits	17 Credits	17 Credits	16 Credits	15 Credits	15 Credits

UCC = [University Core Curriculum](#)

→ = Prerequisite\*

→ = Co-requisite\*

\* Always consult the [University Catalog](#) for current course prerequisites, co-requisites, and restrictions.

Note on CSCE Seminar Timing (CSCE 181/481):

- Students are encouraged to take CSCE 181 early in the plan to better understand the degree program and get exposure to different areas in computing for later selection of Prescribed electives.
- Students are encouraged to take CSCE 481 during their junior year to prepare for internship and job interviews as well understand different career options after the baccalaureate degree.

The most important thing to note with this degree plan flow is the order of course prerequisites. When planning your classes each semester, and for your whole degree, you need to make sure that all prerequisites are being met. Course prerequisites can be found in the course catalog, and in the details on Howdy.

# BS-CPEN degree (sample)

CSCE (18 + 6*)	ECEN (22 +9*)	MATH & STAT (20)	Science (10)	Core Curriculum (21)
120 <sup>1</sup> (3) 222 <sup>1</sup> (3) 221 <sup>1</sup> (4) 313 <sup>1</sup> (3) 331 <sup>1,2</sup> (4) 481 <sup>1</sup> (1)	248 <sup>1</sup> (4) 214 <sup>1</sup> (4) 314 <sup>1</sup> (3) 350 <sup>1</sup> (4) 325 <sup>1</sup> (4) 454 <sup>1</sup> (3)	151 <sup>1</sup> (4) 152 <sup>1</sup> (4) 251 <sup>1</sup> (3) 308 <sup>1</sup> (3) 311 <sup>1</sup> (3) STAT 211 <sup>1</sup> (3) or ECEN 303 <sup>1</sup> (3)	CHEM 107 <sup>1</sup> (3) CHEM 117 <sup>1</sup> (1) PHYS 206 <sup>1</sup> (3) PHYS 207 <sup>1</sup> (3)	Lang, Phil & Cult: _____ (3) Creative Arts: _____ (3) Soc & Behav Sci: _____ (3) American History _____ (3) _____ (3)
462 <sup>1</sup> (3) or 483 <sup>1,2</sup> (3) or	449 <sup>1</sup> (3) 403 <sup>1,2</sup> (3) + 404 <sup>1</sup> (3)	<b>ENGR (6)</b> 102 <sup>1</sup> (2) 216 <sup>1</sup> (2) 217 <sup>1</sup> (2)	<b>Communication (6)</b> ENGL 103 <sup>1</sup> (3) or 104 <sup>1</sup> (3) ENGL 210 <sup>1</sup> (3) or COMM 205 <sup>1</sup> or COMM 243 <sup>1</sup> (3)	Govt/Political Science POLS 206 (3) POLS 207 (3)
<b>High Impact Experience (0)</b> 399 (0) or 399(0)				<b>ICD/CD*</b>
<b>Area Electives (12 or 15)</b> Area I: _____ (3) _____ (3) Area I: _____ (3) _____ (3)* (only Area II: _____ (3) if taking CSCE 483)		<b>Engr. Elective (3)</b> _____ (3)		ICD _____ (3) CD _____ (3)
<b>Total Hours: 128 (not including ICD/CD)</b>				

\*Depends on which courses are selected from (CSCE 462 or ECEN 449) and (CSCE 483 or ECEN 403+404).

\*ICD/CD courses can simultaneously be used to fulfill other core curriculum requirements.

<sup>1</sup> A grade of C or better is required.

<sup>2</sup> UCRT/UWRT courses; CSCE 331 and (CSCE 483 or ECEN 403) must be completed.

- Indicated courses require a C or better, along with technical electives
- Courses in green box can overlap with ICD/CD; please visit this link for full list of core classes: <https://core.tamu.edu/>
- Visit your advising canvas page for details on
  - Area electives
  - Engineering elective

# BS-CPEN Technical Electives

- Communications and networks
  - CSCE463: Networks and Distributed Processing
  - CSCE464: Wireless and Mobile Systems
  - CSCE465: Computer and Network Security
  - ECEN423: Computer and Wireless Networks
  - ECEN424: Fundamentals of Networking
  - ECEN434: Optimization for ECE Applications
  - ECEN455: Digital Communications
  - ECEN461: Electronic Noise
  - ECEN/CYBR466: Unconditionally Secure Electronics
  - ECEN478: Wireless Communications
  - MATH470: Communications and Cryptography



# BS-CPEN Technical Electives, continued

- Data Science, Artificial Intelligence, and Machine Learning
  - CSCE305/ECEN360/STAT315: Computational Data Science
  - CSCE310: Database Systems
  - CSCE320/STAT335: Principles of Data Science
  - CSCE420: Artificial Intelligence
  - CSCE421/ECEN427/STAT421: Machine Learning
  - CSCE436: Computer Human Interaction
  - CSCE439: Data Analytics for Cybersecurity
  - CSCE447/VIST476: Data Visualization
  - CSCE470: Information Storage and Retrieval
  - ECEN434: Optimization for ECEN
  - ECEN446: Information Theory, Inference, and Learning Algorithms
  - ECEN455: Digital Communications

# BS-CPEN Technical Electives, continued

- Signals and Systems, Graphics, and Robotics
  - CSCE441: Computer Graphics
  - CSCE443: Game Development
  - CSCE446/VIST477: Virtual Reality
  - CSCE448: Computational Photography
  - CSCE450: Computer Animation
  - CSCE452: Robotics and Spatial Intelligence
  - ECEN419: Genomic Signal Processing
  - ECEN420: Linear Control Systems
  - ECEN422: Control Engineering and Design Methodology
  - ECEN442: DSP Based Electromechanical Motion Control
  - ECEN444: Digital Signal Processing
  - ECEN447: Digital Image Processing
  - ECEN448: Real Time Digital Signal Processing

# BS-CPEN Technical Electives, continued

- Software and Systems
  - CSCE314: Programming Languages
  - CSCE410: Operating Systems
  - CSCE411: Design and Analysis of Algorithms
  - CSCE412: Cloud Computing
  - CSCE413: Software Security
  - CSCE429: Software Development, Globalization and Culture Abroad
  - CSCE430: Problem Solving Programming Strategies
  - CSCE431: Software Engineering
  - CSCE432: Accessible Computing
  - CSCE434: Compiler Design
  - CSCE435: Parallel Computing
  - CSCE438: Distributed Systems
  - CSCE440: Quantum Algorithms
  - CSCE442: Scientific Programming
  - CSCE451: Software Reverse Engineering

# BS-CPEN Technical Electives, continued

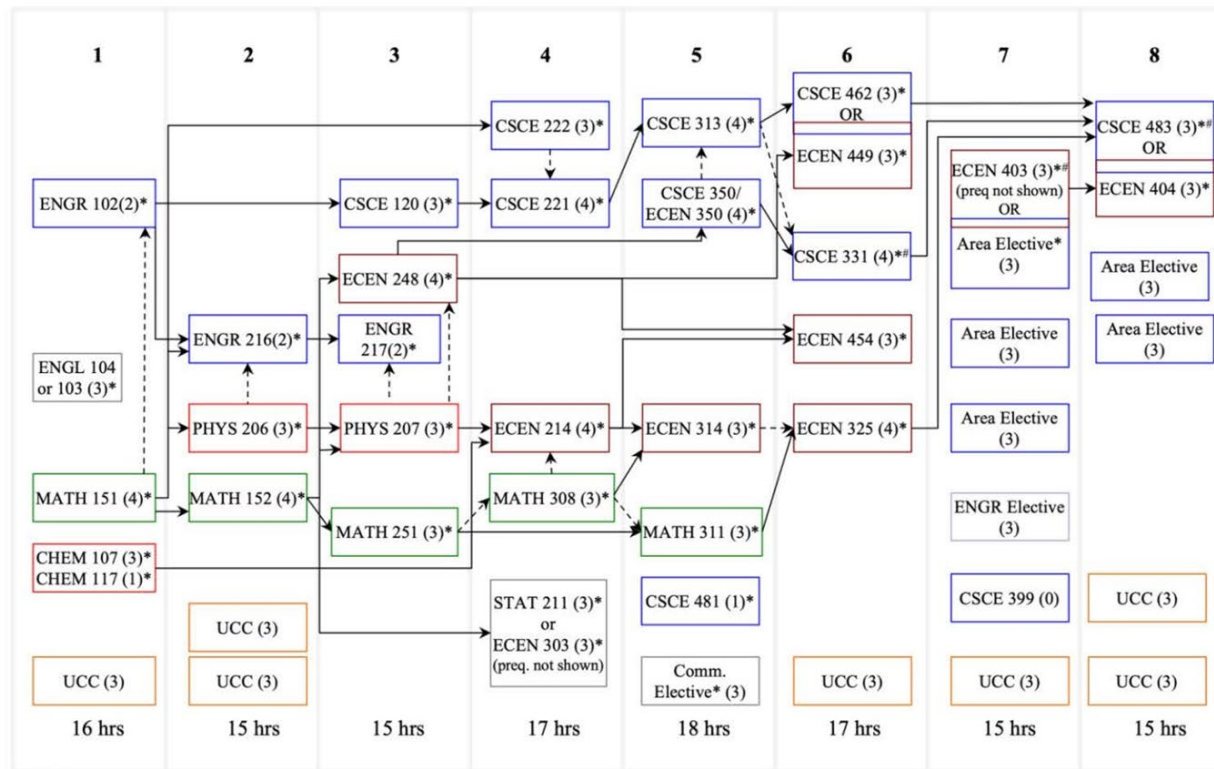
- VLSI and Hardware Systems
  - CSCE/ECEN416: Hardware Design Verification
  - CSCE461/BMEN428: Embedded Systems for Medical Applications
  - CSCE462: Microcomputer Systems
  - CSCE/ECEN469: Advanced Computer Architecture
  - ECEN326: Electronic Circuits
  - ECEN428: Field Programmable Gate Arrays Information Processing Systems
  - ECEN449: Microprocessor System Design
  - ECEN468: Advanced Digital System Design
  - ECEN474: VLSI Circuit Design
  - ECEN475: Introduction to VLSI Systems Design

# BS-CPEN Technical Electives, continued

- Security
  - CSCE413: Software Security
  - CSCE439: Data Analytics for Cybersecurity
  - CSCE449: Applied Cryptography
  - CSCE451: Software Reverse Engineering
  - CSCE465: Computer and Network Security
  - CSCE/ECEN426: Security of Embedded Systems
  - ECEN/CYBR466: Unconditionally Secure Electronics
  - MATH470: Communications and Cryptography



# BS-CPEN 4 year flowchart



## Notes

Courses marked with an asterisk (\*) must be completed with grade of C or better.

UCC: University core curriculum elective; Of the 21 hrs of UCC, 3 must be from Creative Arts, 3 from Social and Behavioral Sciences, 3 from Language, Philosophy and Culture, 6 from American History, and 6 from Government and Political Science.

Comm. Elective: one of ENGL 210 or COMM 205 or COMM 243

ENGR Elective: 3 hours of coursework to be approved by student's advisor.

Additional Requirements: 3 hrs of International and Cultural Diversity and 3 hrs of Cultural Discourse courses (can be used to satisfy another requirement).

\* UWRT/UCRT courses that fulfill universities writing requirement.

Prerequisite →  
Co-requisite - - - - -

The most important thing to note with this degree plan flow is the order of course prerequisites. When planning your classes each semester, and for your whole degree, you need to make sure that all prerequisites are being met. Course prerequisites can be found in the course catalog, and in the details on Howdy.

# BA-CPSC degree (sample)

Texas A&M University – College of Engineering – Department of Computer Science and Engineering  
Degree Plan for the Bachelor of Arts in **Computing** (BA-COMP)  
Valid for the Fall 2021 Catalog #144 (120 Credit Hours)

Major Coursework – 34 Credit Hours		
Course	Hrs.	Notes
CSCE 110, 111, or 206	4	
CSCE 181	1	
CSCE 120	3	Can replace with CSCE 121
CSCE 221	4	
CSCE 222	3	
CSCE 312	4	
CSCE 313	4	
CSCE 314	3	
CSCE 331	4	University Writing Requirement
CSCE 481	1	
STAT 211, 301, 302, or 303	3	
Supporting Coursework – 41 Credit Hours		
CSCE 482	3	University Writing Requirement
CSCE Technical Prescribed Elective	3	
CSCE Technical Prescribed Elective	3	9 credit hours total from 300 and 400 CSCE courses (see list in full packet)
CSCE Technical Prescribed Elective	3	
Concentration Elective	3	
Concentration Elective	3	
Concentration Elective	3	
Concentration Elective	3	
Concentration Elective	3	
Concentration Elective	3	
Concentration Elective	3	
Concentration Elective	3	
Concentration Elective	3	
Concentration Elective	3	
Concentration Elective	3	
Concentration Elective	3	
Concentration Elective	3	
Concentration Elective	2	
29 credit hours total; Must be approved by an advisor and in a single cohesive area (see details in full packet)		
Communication – 9 Credit Hours		
ENGL 103 or 104	3	
COMM 203, 205, or 243	3	
ENGL 203, 210, or 241	3	
Mathematics – 6 Credit Hours		
MATH 142, 147, 151, or 171	4	
MATH 140, 148, 152, 168, 172 or PHIL 240	4	

Life and Physical Sciences – 9 Credit Hours		
Course	Hrs.	Notes
CORE Science	3	
CORE Science	3	see core.tamu.edu
CORE Science	3	
CORE Lang. Phil. & Culture *	3	see core.tamu.edu
Creative Arts – 3 Credit Hours		
CORE Creative Arts *	3	see core.tamu.edu
Social Behavioral Sciences – 3 Credit Hours		
CORE Social Science *	3	see core.tamu.edu
Citizenship – 12 Credit Hours		
CORE History	3	
CORE History	3	see core.tamu.edu
POLS 207	3	
Foreign Language – 0 Credit Hours		
2 courses of same foreign language		2 years high school or 2 terms college
International & Culture Diversity/ Cultural Discourse		
ICD	(3)	
CD	(3)	try to link with LPC, CA or SBS
Notes:		
Disclaimer: This is a planning tool only!		
Use NAVIGATE to make advising appointments and talk to your advisor		
Degree Planner due each year between March 1st - September 30th		
Find more detailed notes in the full packet		
BOLD and shaded background = C or higher grade required		
Prerequisites must be completed before taking courses; corequisite must be completed before or taken concurrently; see catalog.tamu.edu for listing		
* Overlap with ICD/CD requirements		
TAMU and Major GPA >= 2.0 required for graduation		

- Courses requiring a C or better are in blue boxes
- Green box core curriculum courses can overlap with ICD/CD requirements; please visit this link for core curriculum: <https://core.tamu.edu/>
- Visit your advising canvas page for details on
  - Supporting/emphasis area
  - Technical electives

# BA-CPSC Technical Electives

- The options for BA-CPSC technical electives should be the same as those for the BS-CPSC degree. However, all elective choices must be made in consultation with your faculty advisor.

# BA-CPSC 4 year flowchart

Example Four Year Flowchart for the BA in Computing 2024 Catalog

Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
<div>CSCE 110/111/206 (4)</div> <div>CSCE 181 (1)</div> <div>MATH 142/147/151/171 (3)</div> <div>ENGL 103/104 (3)</div> <div>UCC (3)</div>	<div>CSCE 120 (3)</div> <div>MATH 140/148/152/168/172 or PHIL 240 (3)</div> <div>Science (3)</div> <div>UCC (3)</div> <div>Concentration (3)</div>	<div>CSCE 221 (4)</div> <div>CSCE 222 (3)</div> <div>STAT 211/301/302/303 (3)</div> <div>Science (3)</div> <div>Concentration (3)</div>	<div>CSCE 312 (4)</div> <div>CSCE 314 (3)</div> <div>COMM 203, 205 or ENGL 210 (3)</div> <div>Science (3)</div> <div>Concentration (3)</div>	<div>CSCE 313 (4)</div> <div>CSCE 331 (4)</div> <div>CSCE 481 (1)</div> <div>UCC (3)</div> <div>Concentration (3)</div>	<div>CSCE 411 (3)</div> <div>Prescribed (3)</div> <div>UCC (3)</div> <div>Concentration (3)</div>	<div>Prescribed (3)</div> <div>CSCE 482 (3)</div> <div>UCC (3)</div> <div>Concentration (3)</div>	<div>Prescribed (3)</div> <div>CSCE 482 (3)</div> <div>UCC (3)</div> <div>Concentration (2)</div>
14 Credits	15 Credits	16 Credits	16 Credits	15 Credits	15 Credits	15 Credits	14 Credits

UCC = [University Core Curriculum](#)

→ = Prerequisite\*

→ = Co-requisite\*

The most important thing to note with this degree plan flow is the order of course prerequisites. When planning your classes each semester, and for your whole degree, you need to make sure that all prerequisites are being met. Course prerequisites can be found in the course catalog, and in the details on Howdy.

\* Always consult the [University Catalog](#) for current course prerequisites, co-requisites, and restrictions.

Note on CSCE Seminar Timing (CSCE 181/481):

- Students are encouraged to take CSCE 181 early in the plan to better understand the degree program and get exposure to different areas in computing for later selection of Prescribed electives.
- Students are encouraged to take CSCE 481 during their junior year to prepare for internship and job interviews as well understand different career options after the baccalaureate degree.

# CPSC degrees: BA vs. BS

- No common freshman engineering first-year programming for BA students
- Identical foundational courses at 100, 200, and 300 level, with the addition; ENGR102 for BS students, CSCE110/111/206 for BA students
- Fewer 300-400 level CSCE electives required for BA students
- 29 credits of concentration electives for BA students vs. 12 credits of emphasis area electives for BS students
  - BA students should be used to develop a secondary specialty
- Fewer math credits required for BA students, more choices
- Fewer science credits required for BA students, more choices
- One additional communication requirement for BA students
- Students in the BA program will submit a supplementary degree plan for supporting area approval



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# Enhancing your degree: ENGR[x]\*

Examples of the HIE include:

- Study Abroad
  - Engineering Honors program or CSCE honors classes
  - Research with a professor
  - Internships/co-ops
  - Graduate CSCE courses (and ECEN, for CPEN)
  - STEM to Stocks
  - Significant leadership activities in service of the department; these must be individually approved
- 
- \*BA-CPSC students are not required to complete ENGR[x], but we still encourage participation in high-impact experiences



# Useful Information



# Academic Deficiency

- Scholastic deficiency: acquiring term GPA < 2.0 or cumulative GPA < 2.0 (other situations possible)
- Student must remove deficiency within 1-3 semesters to avoid being dismissed from the Department or the College
- To view the College of Engineering's policy on probation and dismissal, please visit <https://engineering.tamu.edu/academics/resources/probation.html>

# Repeating courses

- Student rule 10 indicates that a student is not allowed to take a class more than three times without permission from the department AND college.
- After attempting a course twice, students will be placed on probation, and they must meet with an advisor by the end of the 2nd week of the new semester.
- After attempting a course three times, students will be dismissed from the department. Students are allowed to appeal to the department and college, but appeals are not guaranteed.





# Degree evaluations and degree planners





# Undergraduate Degree Planners

- Students are required to get their degree plan approved by the fall following their entry (or they will be blocked from registration in the following spring)
- Student guide available on Howdy
- Template with courses available as a starting point, along with material on our Canvas page.
- Tips
  - Prerequisite Check tab: check prerequisites are met
  - Degree Evaluation tab: check that you have courses planned for every degree requirement
  - Include comments explaining any unmet requirements
    - E.g., planner not recognizing approved course
    - Some electives (BA-CPSC/BS-CPEN/BS-CPSC) and supporting area coursework may not be recognized by the planner, but they may still be used.

# Degree evaluations

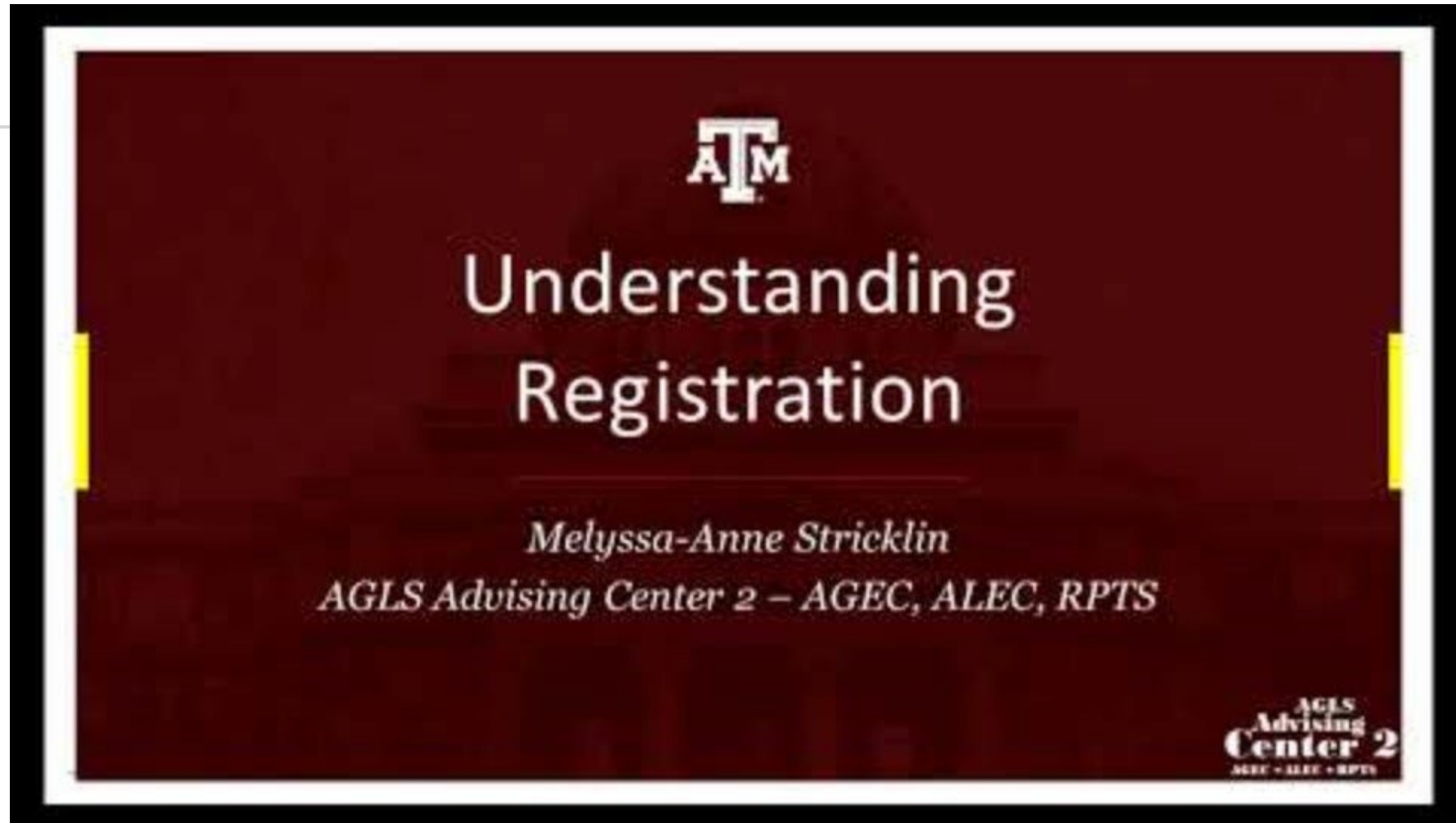
- You will frequently find it useful to run a degree evaluation to determine what classes are credited and which remain
  - **This** is what your graduation is based on, not your planner.
  - Select degree evaluation in Howdy
  - Select your catalog year
  - Select your upper division major: "BS CPSC" or "BS CPEN" or "BA CPSC"
  - Follow the links through to generate the request
  - Select "Detail Requirements"
  - Note that items requiring decisions by our office won't be shown until we are able to submit a manual request. These include courses transferred "by title," supporting area electives, etc. These courses will be shown in the "Work Not Applied" until adjustments are submitted.



# Registration to-do list



# Aggie Schedule Builder



# Registration to-do list

Registration will proceed much faster if you:

- Decide on courses you want to take
- Find Sections on Howdy with available seats that fit your schedule
- Pay attention to all times and days listed
- Pay attention to all section restrictions and details



# Registration, continued

- We will provide you with a list of specific classes (or types of classes) to take, based on what we see on your incoming transcript.
- We are not able to guarantee seats in other departments.
- We know that this will be a frustrating process, and we share your frustration. We promise future registration sessions will be easier!

# Clear your holds

- Tuition Rate Selection: select tuition rate code code from “My Finances” tab on howdy
- Bacterial Meningitis Immunization: Contact ADMI at 979-845-1060
- Check-In at ISS:
  - Phone: 979-845-1151
- Tuberculosis Screening: Student Health 979-458-8310
- Engl. Proficiency Not Verified: let us know!

# Thanks & Gig 'em!

## Contact Us



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