

Name:

Date:

PeopleSoft ID:

Check List for BS in Computer Science

Tr	UH	COMPUTER SCIENCE (45 Hours, 30 hours Advanced **MATH 3336 will apply**):
		COSC 1336 (1306) Computer Science and Programming
		COSC 1437 (1430) Introduction to Programming
		COSC 2436 (2430) Programming and Data Structures
		COSC 2425 (2440) Computer Organization and Architecture
		COSC 3320 Algorithms and Complexities
		COSC 3340 Introduction to Automata and Computability
		COSC 3360 Fundamentals of Operating Systems
		COSC 3380 Design of File and Database Systems
		COSC 4351 Fundamentals of Software Engineering

OR COSC 4353 Software Design

		COSC __3__ 3 hours Advanced COSC elective*
		COSC __3__ 3 hours Advanced COSC elective*
		COSC __3__ 3 hours Advanced COSC elective*
		COSC __3__ 3 hours Advanced COSC elective*

MATHEMATICS :

		MATH 2413 (1431) Calculus I
		MATH 2414 (1432) Calculus II
		MATH 2318 (2331) Linear Algebra
		OR MATH 3321 Engineering Mathematics
		MATH 3336 Discrete Mathematics
		OR COSC 3336 Computing Structures
		MATH 3339 Statistics for the Sciences

NSM APPROVED NATURAL SCIENCES (14 Hours):

		1 hr Natural Sciences Lab*** (Labs must be in the same subject)
		1 hr Natural Sciences Lab*** (Labs must be in the same subject)
		3 hours NSM Approved Natural Science***
		3 hours NSM Approved Natural Science***
		3 hours NSM Approved Natural Science
		3 hours NSM Approved Natural Science

***Indicates courses must be in the same subject

CORE (Check UH Catalog or UH Core Website for Pre-Requisites)

Tr	UH	COMMUNICATION (6 Hours):
		ENGL 1301 (1303) First Year Writing I
		ENGL 1302 (1304) First Year Writing II

STATE REQUIREMENTS (12 Hours):

		American History (3 Hours)
		American History (3 Hours)
		GOVT 2305 (POLS 1337) U.S. Government: Congress, President, and Court
		GOVT 2306 (POLS 1336) U.S. and Texas Constitutions and Politics

FROM APPROVED CORE LIST (12 Hours): Choose from UH Core Website

		Creative Arts (3 Hours)
		Language, Philosophy & Culture (3 Hours)
		Social & Behavioral Sciences (3 Hours)
		Writing in the Disciplines (3 Hours)

*EXAMPLES OF COMPUTER SCIENCE ELECTIVES (Check Catalog for Full List & Pre-Requisites)

COSC	3337	Data Science I #
COSC	3371	Cybersecurity
COSC	4315	Programming Languages and Paradigms
COSC	4332	Medical Robotics and Image Guided Interventions
COSC	4348	Introduction to Gaming Art and Animation
COSC	4349	Intermediate Gaming Art and Animation
COSC	4354	Software Development Practices #
COSC	4355	Introduction to Ubiquitous Computing #
COSC	4358	Introduction to Interactive Game Development #
COSC	4359	Intermediate Interactive Game Development #
COSC	4364	Numerical Methods
COSC	4368	Artificial Intelligence Programming
COSC	4370	Interactive Computer Graphics
COSC	4372	Fundamentals of Medical Imaging
COSC	4377	Introduction to Computer Networks
COSC	4390	Introduction to Internet Computing
COSC	4393	Introduction to Digital Image Processing
COSC	4397	Selected Topics in Computer Science

#May be taken as an elective if not applied towards Capstone

Must Complete Either COSC Senior Sequence or an NSM Capstone

COSC SENIOR SEQUENCES

If a course is taken for Senior Sequence, that course cannot be used towards other COSC requirements

		<input type="checkbox"/>	Software Senior Sequence
			COSC 4353 Software Design
			COSC 4354 Software Development Practices
			OR COSC 4355 Introduction to Ubiquitous Computing
		<input type="checkbox"/>	Game Development Senior Sequence
			COSC 4358 Introduction to Interactive Game Development
			COSC 4359 Intermediate Interactive Game Development **
			**COSC 4370 is required to take COSC 4359.
		<input type="checkbox"/>	Data Science Senior Sequence
			COSC 3337/4335 Data Science I
			COSC 4337 Data Science II

NSM CAPSTONE OPTIONS

<input type="checkbox"/>	Minor	<input type="checkbox"/>	Senior Research Project
<input type="checkbox"/>	Double Major	<input type="checkbox"/>	Senior Honors Thesis
<input type="checkbox"/>	Dual Degree	<input type="checkbox"/>	teachHouston

FREE ELECTIVES

(Additional hours to complete a total of 120 hours)

Tr	UH	

RULES YOU NEED TO KNOW:

Numbers in parentheses indicate UH course numbers prior to Fall 2021.

1. MINIMUM of a **2.00 GPA** in cumulative, major, and minor GPA to graduate
2. **PRE-REQ RULE:** Must earn C- or better in pre-requisite for COSC courses
3. **C- RULE:** MAXIMUM of **6 hours of grades below C-** allowed in UH COSC courses
4. LAST **30 hours** must be exclusively completed at UH
5. MAXIMUM of **6 W's** allowed during entire undergraduate career
6. MINIMUM of **36 advanced hours** and **120 total hours** to graduate
7. MAXIMUM of **66 lower level transfer hours** may be applied towards UH degree

Advisor _____