

Name:
PeopleSoft ID:

Date:

General Catalog: 20__ - 20__
Major Catalog: 20__ - 20__

Check List for BS in Computer Science

Effective Fall 2015

| Tr | UH | COMPUTER SCIENCE (42 Hours MINIMUM): | |
|----|----|---|--|
| | | COSC 1306 (1410) | Computer Science and Programming |
| | | COSC 1430 (1320) | Introduction to Programming |
| | | COSC 2430 (2320) | Programming and Data Structures |
| | | COSC 2440 (2410+3330) | 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* |
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| | | COSC __3__ | 3 hours Advanced COSC elective* |

(###) Courses in parentheses are former course numbers associated with the class

| Tr | UH | MATHEMATICS (14 Hours MINIMUM): | |
|----|----|--|---|
| | | MATH 1431 | Calculus I Fall, Spring, Sum |
| | | MATH 1432 | Calculus II Fall, Spring, Sum |
| | | MATH 2331 | Linear Algebra Fall, Spring, Sum |
| | | OR MATH 3321 | Engineering Mathematics Fall, Spring, Sum |
| | | MATH 3336 | Discrete Mathematics Fall, Spring, Sum |
| | | OR COSC 3336 | Computing Structures |
| | | MATH 3339 | Statistics for the Sciences Fall, Spring, Sum |

| Tr | UH | NSM APPROVED NATURAL SCIENCES (14 Hours): | |
|----|----|--|---|
| | | | 1 hr Natural Sciences Lab*** (Lab must be in the same discipline) |
| | | | 1 hr Natural Sciences Lab*** (Lab must be in the same discipline) |
| | | | 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 discipline

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

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

| Tr | UH | STATE REQUIREMENTS (12 Hours): | |
|----|----|---------------------------------------|---|
| | | HIST 1376 or 1377 | The United States to 1877 |
| | | HIST 1378 or 1379 | The United States Since 1877 |
| | | POLS 1336 | U.S. and Texas Constitutions and Politics |
| | | POLS 1337 | U.S. Government: Congress, President, and Court |

| Tr | UH | FROM APPROVED CORE LIST (12 Hours): Choose from UH Core Website | |
|----|----|--|---------------------------------------|
| | | | Language/Philosophy/Culture (3 Hours) |
| | | | Creative Arts (3 Hours) |
| | | | Social & Behavioral Science (3 Hours) |
| | | | Writing in the Disciplines (3 Hours) |

RULES YOU NEED TO KNOW:

1. MINIMUM of a **2.00 GPA** in cumulative, major, and minor GPA to graduate
2. **C- RULE:** MAXIMUM of **6 hours of grades below C-** allowed in **UH COSC** courses
3. LAST **30 hours** must be exclusively completed at UH
4. MAXIMUM of **6 W's** allowed during entire undergraduate career
5. MINIMUM of **36 advanced hours** and **120 total hours** to graduate
6. MAXIMUM of **66 lower level transfer hours** may be applied towards UH degree
7. At 60 hours, must request a **Major Degree Plan *REQUIRED TO GRADUATE***

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

| | |
|-----------|---|
| COSC 4315 | Programming Languages and Paradigms |
| COSC 4332 | Medical Robotics and Image Guided Interventions |
| COSC 4335 | Data Mining |
| 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 4371 | Web Security |
| 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*

***CHOOSE ONE OPTION FROM:**

| Tr | UH | *OPTION #1: COSC SENIOR SEQUENCE | |
|----|----|---|--------------------------------------|
| | | COSC 4353 | Software Design |
| | | COSC 4354 | Software Development Practices |
| | | OR COSC 4355 | Introduction to Ubiquitous Computing |

*If taken for Senior Sequence, these courses cannot be used towards other COSC requirements

*OPTION #2: NSM CAPSTONE

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

| Tr | UH | |
|----|----|--|
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FREE ELECTIVES

(Additional hours to complete a total of **120 hours**, including at least **36 advanced hours**)

| Tr | UH | |
|----|----|--|
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Advisor: _____