Check List for BS in Computer Science
Effective Fall 2015

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<thead>
<tr>
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<th>UH</th>
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<tbody>
<tr>
<td></td>
<td>COMPUTER SCIENCE (42 Hours MINIMUM):</td>
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<tr>
<td></td>
<td>COSC 1306 (4140)</td>
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<td></td>
<td>COSC 1430 (1330)</td>
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<td></td>
<td>COSC 2430 (2290)</td>
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<td></td>
<td>COSC 2440 (2410-3330)</td>
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<tr>
<td></td>
<td>COSC 3320</td>
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<td>COSC 3340</td>
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<td>COSC 3360</td>
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<td></td>
<td>COSC 3380</td>
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<tr>
<td></td>
<td>COSC 4351</td>
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<tr>
<td>OR</td>
<td>COSC 4353</td>
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<tr>
<td></td>
<td>COSC <em><strong>3</strong></em></td>
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<td>COSC <em><strong>3</strong></em></td>
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<td>COSC <em><strong>3</strong></em></td>
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<tr>
<td></td>
<td>COSC <em><strong>3</strong></em></td>
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<td>(****) Courses in parentheses are former course numbers associated with the class</td>
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<tr>
<td></td>
<td>MATHEMATICS (14 Hours MINIMUM):</td>
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<tr>
<td></td>
<td>MATH 1431</td>
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<td>MATH 1432</td>
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<td></td>
<td>MATH 2331</td>
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<td>OR</td>
<td>MATH 3321</td>
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<td></td>
<td>MATH 3336</td>
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<td>OR</td>
<td>COSC 3336</td>
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<td>MATH 3339</td>
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<tbody>
<tr>
<td></td>
<td>NATURAL SCIENCES (14 Hours):</td>
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<tr>
<td></td>
<td>1 hr Natural Sciences Lab*** (Lab must be in the same discipline)</td>
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<td></td>
<td>1 hr Natural Sciences Lab*** (Lab must be in the same discipline)</td>
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<td></td>
<td>3 hours NSM Approved Natural Science***</td>
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<td>***</td>
<td>Indicates courses must be in the same discipline</td>
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<tbody>
<tr>
<td></td>
<td>CORE</td>
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<tr>
<td></td>
<td>COMMUNICATION (6 Hours):</td>
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<tr>
<td></td>
<td>ENGL 1303 First Year Writing I</td>
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<td></td>
<td>ENGL 1304 First Year Writing II</td>
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<td>STATE REQUIREMENTS (12 Hours):</td>
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<tr>
<td></td>
<td>HIST 1376 or 1377 The United States to 1877</td>
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<td></td>
<td>HIST 1378 or 1379 The United States since 1877</td>
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<tr>
<td></td>
<td>POLS 1336 U.S. and Texas Constitutions and Politics</td>
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<td>POLS 1337 U.S. Government: Congress, President, and Court</td>
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<td>FROM APPROVED CORE LIST (12 Hours): Choose from UH Core Website</td>
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<tr>
<td></td>
<td>Language/Philosophy/Culture (3 Hours)</td>
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<td>Creative Arts (3 Hours)</td>
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<td>Social &amp; Behavioral Science (3 Hours)</td>
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<td>Writing in the Disciplines (3 Hours)</td>
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**EXAMPLES OF COMPUTER SCIENCE ELECTIVES**
(Check Catalog for Pre-Requisites)

COSC 4315 Programming Languages and Paradigms Fall |
COSC 4332 Medical Robotics and Image Guided Interventions Spring |
COSC 4335 Data Mining** |
COSC 4348 Introduction to Gaming Art and Animation Fall |
COSC 4349 Intermediate Gaming Art and Animation Spring |
COSC 4354 Software Development Practices Spring # |
COSC 4355 Introduction to Ubiquitous Computing Fall # |
COSC 4356 Introduction to Interactive Game Development Fall, Spring |
COSC 4359 Intermediate Interactive Game Development Spring |
COSC 4364 Numerical Methods Spring |
COSC 4368 Artificial Intelligence Programming** |
COSC 4370 Interactive Computer Graphics Fall |
COSC 4371 Web Security Spring |
COSC 4372 Fundamentals of Medical Imaging Fall |
COSC 4377 Introduction to Computer Networks** |
COSC 4390 Introduction to Internet Computing** |
COSC 4393 Introduction to Digital Image Processing Fall |
COSC 4397 Selected Topics in Computer Science Fall, Spring, Sum

*Indicates the course is not offered at consistent intervals
#May be taken as an elective if not applied towards Capstone

**CHOOSE ONE OPTION FROM:**

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<tbody>
<tr>
<td></td>
<td>*OPTION #1: COSC SENIOR SEQUENCE</td>
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<tr>
<td></td>
<td>COSC 4353 Software Design Fall, Spring</td>
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<tr>
<td></td>
<td>COSC 4354 Software Development Practices Spring</td>
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<tr>
<td>OR</td>
<td>COSC 4355 Introduction to Ubiquitous Computing Fall</td>
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<tr>
<td></td>
<td>*OPTION #2: NSM CAPSTONE</td>
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<tr>
<td></td>
<td>Minor</td>
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<td>Double Major</td>
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<td>Double Degree</td>
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<td>Senior Research Project</td>
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<td>Senior Honors Thesis</td>
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<td>teachHouston</td>
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<tbody>
<tr>
<td></td>
<td>FREE ELECTIVES</td>
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<td>(Additional hours to complete a total of 120 hours, including at least 36 advanced hours)</td>
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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*

Advisor: ____________________________