## Student Worksheet for the BS-MCS Degree Program

**Name:**

<table>
<thead>
<tr>
<th>BS Credit Hours</th>
<th>120</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shared Coursework between BS and MCS Degree</td>
<td>9 - 12</td>
</tr>
<tr>
<td><strong>Total Credit Hours Required for BS Degree Conferral</strong></td>
<td>129+</td>
</tr>
<tr>
<td>MCS Credit Hours</td>
<td>32</td>
</tr>
<tr>
<td>Shared Coursework between BS and MCS Degree</td>
<td>9 - 12</td>
</tr>
<tr>
<td>Additional Coursework Hours Required</td>
<td>20 - 23</td>
</tr>
<tr>
<td><strong>Total Credit Hours Required for MCS Degree Conferral</strong></td>
<td>32</td>
</tr>
</tbody>
</table>

**Breadth Requirement:** 12-16 HRS *(Grade must be a B- or higher)*

- Must complete four different courses, each from a different area, from the following ten core areas with a grade of B- or higher:

  **Architecture, Compilers, Parallel Computing**
  - CS 426, 431, 433, 435, 462, 483, 494, 526, 533, 536

  **Artificial Intelligence**
  - CS 440, 441, 443, 445, 446, 447, 448, 543, 544, 545, 546, 548, 588

  **Bioinformatics and Computational Biology**
  - CS 466, 581, 583

  **Database and Information Systems**
  - CS 410, 411, 412, 510, 511, 512

  **Formal Methods, Programming Languages, Software Engineering**
  - CS 421, 422, 427, 428, 474, 476, 477, 522, 524, 527, 528, 576

  **Interactive Computing**
  - CS 416, 417, 418, 445, 465, 467, 519, 555

  **Security and Privacy**
  - CS 461, 463, 563

  **Systems and Networking**
  - CS 414, 423, 424, 425, 434, 435, 436, 437, 438, 439, 461, 463, 523, 525, 538, 541, 545, 563

  **Scientific Computing**
  - CS 450, 457, 482, 554, 555, 556, 558

  **Theoretical Computer Science**
  - CS 473, 475, 571, 573, 574, 579, 580, 583

**Total Credit Hours from Distribution Coursework - 12 - 16 credit hours**

**ADVANCED COURSES (12 HRS) (CS 500-590 or 598; Grade must be C or higher.)**

<table>
<thead>
<tr>
<th>500-LEVEL Courses (500-590 or 598)</th>
<th>CREDIT HRS</th>
<th>GRADE</th>
<th>COMMENTS</th>
</tr>
</thead>
</table>

**Note:** Only 4 credits of an approved Non-CS Advanced Course may count towards the degree.

**Total Credit Hours from Advanced Courses - 12 credit hours**

**ADDITIONAL COURSEWORK (4 to 8 hours)**

<table>
<thead>
<tr>
<th>CREDIT HRS</th>
<th>GRADE</th>
<th>COMMENTS</th>
</tr>
</thead>
</table>

**Note:** up to 4 credit hours of CS 591 may count towards the additional coursework.

**Total Credit Hours from Additional Courses - 4 to 8 credit hours**

*Degree requirements must be completed within 5 years for both degrees (up to 4 yrs for BS & two semesters for MCS).*

7/19/2021