

# BS-MCS Degree Program Requirements

## Student Planning Worksheet

Name:

UIN:

Date:

Reviewer Initials:

Completed BS Degree Requirements		Total Credit Hours: Breadth Requirement	
Cumulative MCS GPA ( <i>must maintain 3.0 or above</i> )		Total Credit Hours: Advanced Requirement	
In final semester: applied for BS degree		Total Credit Hours: Additional Coursework	
In final semester: applied for MCS degree		<i>Coursework not counted toward degree</i>	
Completed MCS in 2 Continuous Semesters		<b>Total Credit Hours toward degree</b> (minimum 32)	<b>/ 32</b>

### BREADTH REQUIREMENT (Grade must be B- or higher)

Must complete four different courses, each from a different core area listed below with a grade of B- or higher.

AREA	Credit Hours	Grade	Semester	Comments
<b>Architecture, Compilers, Parallel Computing</b>				
CS 426, 431, 433, 483, 484, 526, 533, 534, 536				
<b>Artificial Intelligence</b>				
CS 440, 441, 442, 443, 444, 445, 446, 447, 448, 540, 542, 543, 544, 545, 546, 588, 598 DL for Healthcare				
<b>Bioinformatics and Computational Biology</b>				
CS 466, 581, 582				
<b>Computers and Education</b>				
CS 500				
<b>Database and Information Systems</b>				
CS 410, 411, 412, 470, 510, 511, 512, 514				
<b>Interactive Computing</b>				
CS 409, 415, 416, 417, 418, 419, 445, 465, 467, 469, 519, 565, 567, 568				
<b>Programming Languages, Formal Methods, Software Engineering</b>				
CS 421, 422, 427, 428, 474, 475, 476, 477, 521, 522, 524, 527, 576, 584				
<b>Scientific Computing</b>				
CS 450, 482, 554, 555, 556, 558				
<b>Security and Privacy</b>				
CS 461, 463, 507, 539, 562, 563				
<b>Systems and Networking</b>				
CS 414, 423, 424, 425, 434, 435, 436, 437, 438, 439, 461, 463, 498 Cloud Computing Applications, 523, 525, 537, 538, 541, 563				
<b>Theoretical Computer Science</b>				
CS 473, 475, 507, 571, 573, 574, 579, 580, 583, 586				
<b>Total Credit Hours from Breadth Coursework (12-16 credit hours)</b>	=	<i>In progress</i>	=	

### ADVANCED COURSES: CS 500-590 or 598 (Grade must be C or higher)

One 500-level may be a 4-credit approved non-CS 500-level course.

ADVANCED COURSES (500-level, CS 500-590 or 598)	Credit Hours	Grade	Semester	Comments
<b>Total Credit Hours from Advanced Coursework (12 credit hours)</b>	=	<i>In progress</i>	=	

### ADDITIONAL COURSEWORK (Grade must be C or higher)

Elective CS or other approved course(s) at 400- or 500-level with a grade of C or higher. Note up to 4 credit hours of CS 591, CS 491, or equivalent coursework may count towards the degree.

Additional Coursework	Credit Hours	Grade	Semester	Comments
<b>Total Other Required &amp; Additional Credit Hours</b>	=	<i>In progress</i>	=	