

## Professional MCS Degree Program Requirements Student Planning Worksheet

Name: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

Must maintain an overall 3.0 GPA	
Degree must be completed within 3 continuous semesters	
ESL Requirement Complete (for international students only)	
Must complete <b>32 Credit Hours</b>	
Breadth Requirement Total Credit Hours Completed	
500-level Requirement Total Credit Hours Completed	
Additional Coursework Total Credit Hours Completed	
Minus additional CS 591 credit hours over 4 credits	
<b>Total Credit Hours Completed</b>	

### Breadth Requirement: 12-16 credit hours

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

AREA	CREDIT HRS	GRADE	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, 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 to 16 credit hours</b>			

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

One 500-level may be an approved non-CS 500-level course that relates to the MCS degree or a 4 credit hrs CS 597.

500-LEVEL Courses (500-590 or 598)	CREDIT HRS	GRADE	COMMENTS
<b>Total Credit Hours from Advanced Courses - 12 credit hours</b>			

### OTHER REQUIRED COURSE (0-4 HRS) ( CS 591 PD, ENG 572 CS, or elective course at 400- or 500-level; Letter grades must be C or higher.)

Required Course	CREDIT HRS	GRADE	COMMENTS

### ADDITIONAL COURSEWORK (0 to 8 hours; Letter grades must be C or higher.)

Additional Courses	CREDIT HRS	GRADE	COMMENTS

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

<b>Total Credit Hours from Additional Courses - 0 to 8 credit hours</b>			
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