

**MONMOUTH UNIVERSITY**  
**Five Year Baccalaureate/Master's Plan**  
**Suggested Sequence Chart**  
**2009-2010**

**Academic Program: B.S. in Computer Science Track A (Advanced Computing)  
and a Master of Science in Computer Science - Thesis or Non-Thesis Track**

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**Semester 1**

COURSE	TITLE	CREDITS
EN101	College English I	3
HS101	Western Civilization I	3
CS120	Foundations of Computer Sc.	4
CS102	Scientific Computer Applic	3
**	Social Science Requirement	3
LC100	Freshman Seminar	1
<b>TOTAL</b>		<b>17</b>

**Semester 2**

COURSE	TITLE	CREDITS
EN102	College English II	3
HS102	Western Civilization II	3
CS175	Intro. Computer Science I	4
MA109	PreCalculus (if needed) or Elective	4
**	Social Science Requirement	3
<b>TOTAL</b>		<b>17</b>

**Semester 3**

COURSE	TITLE	CREDITS
EN201	Literature I	3
CS176	Intro. to Computer Science II	4
CS202	Discrete Math	4
MA125	Calculus w/Analytic Geo. I	4
<b>TOTAL</b>		<b>15</b>

**Semester 4**

COURSE	TITLE	CREDITS
CS305	Algorithms I	4
CS286	Comp. Architecutre I	3
MA126	Calc., Analyt Geom II	4
EN202	Literature II	3
Aesthetics	AR/MU/TH/DA 101	3
<b>TOTAL</b>		<b>17</b>

**Semester 5**

COURSE	TITLE	CREDITS
CS200+	Computer Science Elective	3
CS310	Advanced Object-Oriented Programming (WT)	4
MA319	Probability&Statistics I	3
*	Cross-Cultural Requirement	3
Lab Science	With lab, please refer to curriculum chart for choices	4
<b>TOTAL</b>		<b>17</b>

**Semester 6**

COURSE	TITLE	CREDITS
CS200+	Computer Science Elective	3
CS438	Operating Systems Analysis	4
HU201	Critical Discourse	3
*	Cross-Cultural Requirement	3
Lab Science	With lab, please refer to curriculum chart for choices	4
<b>TOTAL</b>		<b>17</b>

**Semester 7**

COURSE	TITLE	CREDITS
CS325	Software Eng. Concepts (WT)	3
CS432	Database Systemes	4
CS512	Algorithm Design	3
BY/CE/PH	Science course as outlined on the curriculum chart	4
PRxxx	Perspectives Course	3
<b>TOTAL</b>		<b>17</b>

**Semester 8**

COURSE	TITLE	CREDITS
CS 490	Senior Project	4
Elective		3
Elective	(EX)	1
BY/CE/PH	Science course as outlined on the curriculum chart	3
CS400+	Computer Science Elective	3
CS514	Computer Networks	3
<b>TOTAL</b>		<b>17</b>

\*See WEBadvisor "Sections Offered by Term" for complete listing of courses with type:

CC: Cross-Cultural

WT: Writing Intensive

EX: Experiential Education

\*\*Social Sciences: See curriculum chart for choices.

**B.S. in Computer Science Track A (Advanced Computing)  
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**M.S. in Computer Science: Thesis Track**

**Semester 9**

COURSE	TITLE	CREDITS
CS511	Technical Communications	3
CS5xx	(substitute for CS517)	3
CS520	Introduction to Intelligent Sys.	3
CS600+	Computer Science Elective	3
	<b>TOTAL</b>	<b>12</b>

**Semester 10**

COURSE	TITLE	CREDITS
CS510+	Computer Science Elective	3
CS510+	Computer Science Elective	3
CS510+	Computer Science Elective	3
CS690	Thesis	3
	<b>TOTAL</b>	<b>12</b>

**M.S. in Computer Science: Non-Thesis Track**

**Semester 9**

COURSE	TITLE	CREDITS
CS511	Technical Communications	3
CS5xx	(substitute for CS517)	3
CS520	Introduction to Intelligent Sys.	3
CS600+	Computer Science Elective	3
	<b>TOTAL</b>	<b>12</b>

**Semester 10**

COURSE	TITLE	CREDITS
CS510+	Computer Science Elective	3
CS510+	Computer Science Elective	3
CS510+	Computer Science Elective	3
CS600+	Computer Science Elective	3
	<b>TOTAL</b>	<b>12</b>

**TOTAL CREDITS FOR BACCALAUREATE DEGREE = 128  
TOTAL CREDITS FOR MASTER'S DEGREE = 30  
TOTAL CREDITS FOR FIVE YEAR PLAN = 158**