MONMOUTH UNIVERSITY

Office of the Registrar

2015*2016 Sequence Chart

FIVE YEAR PLAN: B.S. IN COMPUTER SCIENCE ADVANCED COMPUTING CONCENTRATION

AND A MASTER OF SCIENCE IN COMPUTER SCIENCE - THESIS OR NON-THESIS TRACK

SEMESTER 1

COURSE CODE	GEN*ED REQ'MT	COURSE* TYPE	TITLE	CRS.
EN101	YES		COLLEGE COMPOSITION 1	3.0
CS102	YES	TL	INTRO. TO COMP. PROB. SOLV. (GEN*ED TECH. LITERACY)	4.0
AR, MU, TH, DA	YES	AT	GEN*ED AESTHETICS	3.0
HS*xxx	YES	HS.SV	GEN*ED HISTORICAL PERSPECTIVES	3.0
FY101	YES		FIRST YEAR SEMINAR	3.0
SEMESTER CREDITS				**16.0**

SEMESTER 2

COURSE CODE	GEN*ED REQ'MT	COURSE* TYPE	TITLE	CRS.
EN102	YES		COLLEGE COMPOSITION 2	3.0
xxx			FREE ELECTIVE	3.0
CS175			INTRO. TO COMPUTER SCIENCE I	4.0
xxx	YES	HS.SV or SS.SV	GEN*ED HISTORICAL PERSPECTIVE or SOCIAL SCIENCE	3.0
MA109	YES		PRE-CALCULUS (if needed)	4.0
SEMESTER CREDITS				**17.0**

SEMESTER 3

COURSE CODE	GEN*ED REQ'MT	COURSE* TYPE	TITLE	CRS.
CS176			INTRO. TO COMPUTER SCIENCE II	4.0
xxx	YES	SS.SV	GEN*ED SOCIAL SCIENCE SURVEY	3.0
CS202			DISCRETE MATH	4.0
MA125			CALCULUS WITH ANAL. GEO. I	4.0
SEMESTER CREDITS				**15.0**

SEMESTER 4

COURSE CODE	GEN*ED REQ'MT	COURSE* TYPE	TITLE	CRS.
CS305			DATA STRUCTURES & ALGORITHMS	4.0
CS286			COMPUTER ARCHITECTURE I	3.0
MA126			CALCULUS WITH ANAL. GEO. II	4.0
EN*xxx	YES	LIT	GEN*ED LITERATURE	3.0
xxx			FREE ELECTIVE	3.0
SEMESTER CREDITS				**17.0**

SEE CURRICULUM CHART or DEGREE AUDIT FOR COMPLETE TITLE OF ALL COURSES. BE CERTAIN TO CONSULT WITH YOUR ADVISOR.

SEE WEBadvisor "SECTIONS OFFERED BY TERM" FOR COMPLETE LISTING OF COURSES WITH ASSOCIATED COURSE*TYPES.

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SEMESTER 5

COURSE CODE	GEN*ED REQ'MT	COURSE* TYPE	TITLE	CRS.
CS310	YES	WT	OBJECT-ORIENTED PROGRAM.	4.0
CS200+			COMPUTER SCIENCE ELECTIVE	3.0
MA220			PROBABLILITY & STATS. I	3.0
xxx	YES	CD	GEN*ED CULTURAL DIVERSITY	3.0
LAB SCIENCE	YES		OUTSIDE THE MAJOR SCIENCE SEE CURRICULUM CHART	4.0
SEMESTER CREDITS				**17.0**

SEMESTER 6

COURSE CODE	GEN*ED REQ'MT	COURSE* TYPE	TITLE	CRS.
xxx	YES	GU	GEN*ED GLOBAL UNDERSTAND.	3.0
CS438			OPERATING SYSTEMS ANALYSIS	4.0
CS200+			COMPUTER SCIENCE ELECTIVE	3.0
LAB SCIENCE	YES		OUTSIDE THE MAJOR SCIENCE SEE CURRICULUM CHART	4.0
xxx	YES	ISP	GEN*ED INTERDISCIPLINARY PERSPECTIVES	3.0
SEMESTER CREDITS				**17.0**

SEMESTER 7

COURSE CODE	GEN*ED REQ'MT	COURSE* TYPE	TITLE	CRS.
CS432			DATABASE SYSTEMS	4.0
CS325	YES	WT	SOFTWARE ENG. CONCEPTS (GEN*ED WRITING INTENSIVE)	3.0
BY, CE, PH	YES	NS	OUTSIDE THE MAJOR SCIENCE	4.0
xxx	YES	EX	FREE ELECTIVES (GEN*ED EXPERIENTIAL ED)	1.0
xxx			FREE ELECTIVES	3.0
CS512			ALGORITHM DESIGN	3.0
SEMESTER CREDITS				**18.0**

SEMESTER 8

COURSE CODE	GEN*ED REQ'MT	COURSE* TYPE	TITLE	CRS.
CS490	YES	RD	SENIOR PROJECT	4.0
CS400+			COMPUTER SCIENCE ELECTIVES	3.0
xxx			FREE ELECTIVES	4.0
BY, CE, PH, MA	YES	NS	OUTSIDE THE MAJOR MATH-SCIENCE REQUIREMENT	3.0
CS514			COMPUTER NETWORKS	3.0
SEMESTER CREDITS				**17.0**

FIVE YEAR PLAN: M.S. IN COMPUTER SCIENCE: THESIS TRACK

SEMESTER 9						SEMESTER 10				
COURSE CODE	GEN*ED REQ'MT	COURSE* TYPE	TITLE	CRS.		COURSE CODE	GEN*ED REQ'MT	COURSE* TYPE	TITLE	CRS.
CS533			DATABASE SYSTEM IMPLEMENTATION	3.0		CS510+			COMPUTER SCIENCE ELECTIVE	3.0
CS520			INTRO. TO INTELLIGENT SYS.	3.0		CS510+			COMPUTER SCIENCE ELECTIVE	3.0
CS510+			COMPUTER SCIENCE ELECTIVE	3.0		CS510+			COMPUTER SCIENCE ELECTIVE	3.0
CS691			THESIS I	3.0		CS692			THESIS II	3.0
		SEMESTER CREDITS		12.0				SEMESTER CREDITS		12.0

FIVE YEAR PLAN: M.S. IN COMPUTER SCIENCE: NON-THESIS TRACK

SEMESTER 9						SEMESTER 10				
COURSE CODE	GEN*ED REQ'MT	COURSE* TYPE	TITLE	CRS.		COURSE CODE	GEN*ED REQ'MT	COURSE* TYPE	TITLE	CRS.
CS533			DATABASE SYSTEM IMPLEMEN.	3.0		CS510+			COMPUTER SCIENCE ELECTIVE	3.0
CS520			INTRO. TO INTELLIGENT SYSTEMS	3.0		CS510+			COMPUTER SCIENCE ELECTIVE	3.0
CS600+			COMPUTER SCIENCE ELECTIVE	3.0		CS510+			COMPUTER SCIENCE ELECTIVE	3.0
CS510+			COMPUTER SCIENCE ELECTIVE	3.0		CS600+			COMPUTER SCIENCE ELECTIVE	3.0
		SEMESTER CREDITS		12.0				SEMESTER CREDITS		12.0

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