

APPENDIX 1: CSM AND UMES 2+3 CURRICULUM OVERVIEW

Semester 1			
College of Southern Maryland	Credits	Gen Ed	Minimum Grade
ENG-1010: Composition and Rhetoric	3	E	C
BIO-1020/L or BIO-1060/L	4	S	C
CHE-1200/L: General Chemistry I and Lab	4	S	C
MTH-1200: Calculus I and Analytic Geometry	4	M	C

Semester 2			
College of Southern Maryland	Credits	Gen Ed	Minimum Grade
BIO-2170: Human Anatomy & Physiology I (previously BIO-2070 & BIO-2070L)	4	S	C
CHE-1210: General Chemistry II and Lab	4	S	C
SOC-1010: Introduction to Sociology	3	B	C
MTH-1015: Introduction to Statistics (previously MTH-2300)	3	M	C
Humanities (preferred ENG-1020)	3	H	C

Semester 3			
College of Southern Maryland	Credits	Gen Ed	Minimum Grade
CHE-2200/L: Organic Chemistry I and Lab	4	S	C
BIO-2080/L: Integrated Human Anatomy and Physiology II and Lab	4	S	C
PSY-1010: General Psychology	3	B	C
COM-1010: Basic Principles of Speech Communication (preferred)	3	H	C

Semester 4			
College of Southern Maryland	Credits	Gen Ed	Minimum Grade
BIO-2010/L: Microbiology and Lab	4	S	C
ECN-2020: Principles of Microeconomics	3	B	C
CHE-2210/L: Organic Chemistry II and Lab	4	S	C
Humanities	3	H	C

Additional Required Coursework			
College of Southern Maryland	Credits	Gen Ed	Minimum Grade
PHY-1110: Fundamentals of Physics I with Lab (previously PHY-1010 & PHY-1010L)	4	S	C
Humanities or Social and Behavioral Science course	3	H or B	C

APPENDIX 1 (CONTINUED): CSM AND UMES 2+3 CURRICULUM OVERVIEW

YEAR 1, FALL SEMESTER	
University of Maryland Eastern Shore	Credits
PHAR-530: Pharmaceutics and Biopharmaceutics	4.5
PHAR-501: Basics of Drug Information and Introduction to Pharmacy Profession	1.5
PHAR-510: Fundamentals of Drug Action and Metabolism	3
PHAR-511: Genetic Controls of Cell Function, Cell Reproduction and Protein Synthesis	2.5
PHAR-512: Metabolism of Carbohydrates, Lipids, and Amino Acids	4
PHAR-523: Endocrine System: Pharmacology and Medicinal Chemistry	1.5
PHAR-540: Pharmacy Administration I – Health Care Delivery	2
PHAR-550: Pharmaceutical Calculations	2
PHAR-542: Concepts in Diversity and Communication for the Pharmacist	3
PHAR-561: Professional Development I	1
PHAR-571: IPPE I	5

YEAR 1, SPRING/SUMMER SEMESTER	
University of Maryland Eastern Shore	Credits
PHAR-520: Principles of Neurobiology and Neuropharmacology	1
PHAR-525: Neuropharmacology and Medicinal Chemistry	3.5
PHAR-521: Cardiovascular & Renal: Pharmacology and Medicinal Chemistry	2
PHAR-522: Gastrointestinal & Genitourinary: Pharmacology and Medicinal Chemistry	1
PHAR-513: Hematology and Immunology	4
PHAR-531: Pharmacokinetics	3.5
PHAR-541: Pharmacy Law	1.5
PHAR-514: Biostatistics and Clinical Trial Design	1.5
PHAR-543: Public Health for Pharmacists	2
PHAR-544: Direct Patient Care in Pharmacy Practice	3
PHAR-562: Professional Development II	1
PHAR-572: IPPE II	5

YEAR 2, FALL SEMESTER	
University of Maryland Eastern Shore	Credits
PHAR-640: Pharmacy Administration II: Management	3
PHAR-610: PTMM: Principles of Pharmacotherapy	2
PHAR-614: PTMM: Pulmonology and Ophthalmology	2
PHAR-611: PTMM: Fluids, Electrolytes and Nephrology	2
PHAR-612: PTMM: Cardiology	5.5
PHAR-630: Sterile Products	1.5
PHAR-641: Practice of Drug Information and Literature Evaluation	2
PHAR-622: PTMM: Endocrinology and Urology	3
PHAR-661: Professional Development III	1
PHAR-671: IPPE III	2
PHAR-624: Integration of Pharmacy Practice I	2.5

PHAR-650: Top 200 Drugs	1
PHAR-609: Therapeutics of Self-Care and Over the Counter Products	2

YEAR 2, SPRING/SUMMER SEMESTER	
University of Maryland Eastern Shore	Credits
PHAR-619: PTMM: Neurology	3
PHAR-618: PTMM: Psychiatry	2.5
PHAR-615: PTMM: Gastroenterology	3
PHAR-613: PTMM: Immunology and Rheumatology	3
PHAR-616: PTMM: Infectious Disease I	3
PHAR-617: PTMM: Infectious Disease II	3
PHAR-620: PTMM: Hematology/Oncology	3
PHAR-660: Scientific Writing	1
PHAR-625: Integration of Pharmacy Practice II	2.5
PHAR-662: Professional Development IV	1
PHAR-672: IPPE IV	2
Elective Courses	6

YEAR 3	
University of Maryland Eastern Shore	Credits
Required Advanced Practice Pharmacy Experiences (APPEs)	
PHAR-700: APPE – Advanced Community Practice	5
PHAR-701: APPE – Advanced Institutional Practice	5
PHAR-702: APPE – Acute Care	5
PHAR-703: APPE – Ambulatory Care	5
Elective APPEs (Select 4)	20
APPE Patient Care Elective	
PHAR-711: APPE – Home Infusion	
PHAR-713: APPE – Emergency Medicine	
PHAR-714: APPE – Hematology/Oncology	
PHAR-715: APPE – Patient Care	
APPE Systems Elective	
PHAR-704: APPE – Public Health	
PHAR-710: APPE – Drug Information	
PHAR-712: APPE – Management and Leadership	
PHAR-720: APPE – General Elective	
PHAR-799: Professional Seminar	2
Program Total Credit Required Hours – 164.5	164.5

Abbreviations: IPPE – Introductory Pharmacy Practice Experience, PTMM – Pharmacotherapy and Medication Management, APPE – Advanced Pharmacy Practice Experience, SCH – Semester Credit Hours

*At least one elective must come from each category: patient care and systems