

Dawg Days: Jumpstart 2019 Course Curriculum

Track	Course Number	Title	Credits
Math Track	MATH 151	Calculus and Analytic Geometry I	4
	Topics of this course include limits, continuity, the rate of change, derivatives, differentiation formulas for algebraic, trigonometric, logarithmic, and exponential functions, maxima and minima, integration and computation of areas, the Fundamental Theorem of Calculus, areas and volumes of solids of revolution, and applications.		
	MATH 150	Precalculus Mathematics	4
	This course provides the mathematical preparation necessary for success in calculus. It also provides preparation for basic physics, computer science and engineering science courses. Topics covered include review of functions and graphing techniques; logarithmic and exponential functions; review of basic right-angle trigonometry followed by an extensive treatment of trigonometric functions, identities and applications to the analytic geometry of the conic sections, applications to two-dimensional vectors and to the geometry of complex numbers.		
	MATH 106	Algebra and Elementary Functions	3
	An introduction to the basic techniques and functions of mathematics. This course is especially recommended for those students who need to brush up due to a shaky high school preparation or for those who haven't had a mathematics course in several years. Topics include linear equations and inequalities; quadratic equations; polynomials; and rational functions and their inverses, including the exponential and the logarithm.		
Writing Track	ENGL 100	Composition	3
	A course in critical thinking, reading, and composing, with an emphasis on integrating academic research and documentation. Students read and produce work for a variety of purposes and audiences, focusing on strategies for researching, organizing, drafting, sharing, and revising. To satisfy the composition general education requirement, this course must be taken within a student's first 30 credit hours of enrollment at UMBC.		
ALL – Fall 2019	FYE 101	Introduction to an Honors University Seminar	1
	Introduction to an Honors University (IHU) Seminar is a 1-credit course designed for first year students at UMBC. This 1-credit discussion section is designed to assist students in achieving academic success at UMBC. This course will focus on the academic expectations, skills, and behaviors needed to achieve success at an honors research university. Additionally, the course will provide you with resources to help you connect with the larger campus community and provide support to you throughout your UMBC experience and beyond.		