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SUMMARY OF CHANGES

The following represent the policy and program changes made to the 2021–2022 catalog since its publication:

- The Associate of Arts degree program is now available to applicants with permanent and mailing addresses outside the state of Maryland, in addition to those populations listed on pp. 6 and 27 of the 2021–2022 catalog.

- Undergraduate students admitted in provisional status

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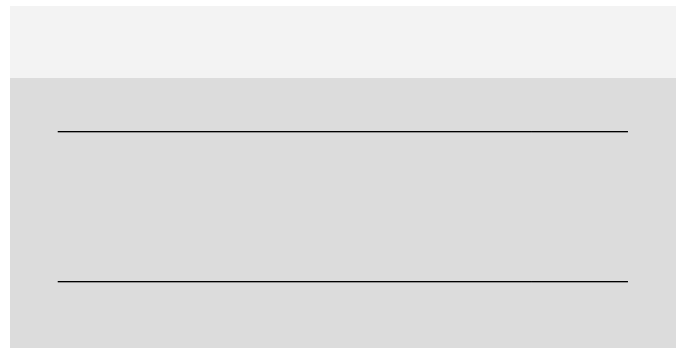
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ABOUT STUDY AT UMGC

Admission

BACHELOR'S DEGREE PROGRAMS

CURRICULA



DOCTORAL DEGREE PROGRAMS

DEGREE REQUIREMENTS AND CURRICULUM

Doctor of Management in Community College Policy and Administration

AVAILABLE SPRING 2022

The following degree requirements and recommended curriculum apply to students who begin continuous study on or after January 1, 2022.

Designed for college faculty and administrators who aspire to lead effectively and advance in administrative careers, the unique concentration in community college policy and administration offers exceptional scholarship, intimate cohorts, online courses, short residencies, distinguished faculty, and dissertation support in a program that can be completed within three years

You'll work together in the same group of 15–20 students throughout the entire program and build a virtual community, developed and led by current and former community college presidents and senior executives.

With a highly respected credential, sophisticated knowledge, and an accomplished dissertation, you'll emerge from the program with the tools to transform student achievement and successfully guide community colleges into the essential role they will play in the future of higher education.

Note: Maryland residents are excluded from admission to the program.

What You'll Learn

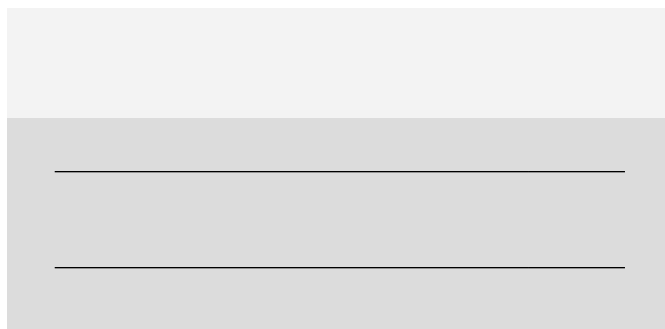
Through your coursework, you will learn how to

- Lead transformational change in a rapidly changing sector of higher education
- Advocate for the needs of community colleges and students at local, state, and federal levels
- Apply indicators of institutional effectiveness to all sectors of community college operations
- Apply theory and practice to continuously improve community college policy and student outcomes

Preparation Recommended for Success

Recommendations

We recommend work and prior management experience in a community college or other higher education institution or in government or business. You need doctoral-level academic read-



CERTIFICATE PROGRAMS UNDERGRADUATE

& YWMRIWW %REP]XMGW Public Safety Executive Leadership

AVAILABLE SPRING 2022

The following degree requirements and recommended curriculum apply to students who begin continuous study on or after January 1, 2022.

Today, employers are looking to hire professionals who possess data analytics skills and can inform and enhance decision making. Data analytics provides a valuable introduction to data science and can enhance your career opportunities, regardless of your major. In this program, you learn how to manage and manipulate data, create data visualizations, and use cutting-edge technology to gain insights from traditional and emerging data sources to inform managerial decision making and organizational outcomes.

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AN INTRODUCTORY COMPUTING COURSE CHOSEN FROM THE FOLLOWING (3):

- CMIS 102 Introduction to Problem Solving and Algorithm Design
- IFSM 201 Concepts and Applications of Information Technology
- DATA 200 Data Literacy Foundations

FOUR REQUIRED COURSES:

- STAT 200 Introduction to Statistics (3)
- DATA 220 Introduction to Data Analytics (3)
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- DATA 335 Data Visualization (3)

AN UPPER-LEVEL COURSE CHOSEN FROM THE FOLLOWING (3):

- CSIA 300 Cybersecurity for Leaders and Managers
- DATA 300 Foundations of Data Science

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REVISED SPRING 2022

The following degree requirements and recommended curriculum apply to those who begin continuous study on or after January 1, 2022.

Develop the Executive Leadership Skills needed to succeed in the Public Safety Professional Environment. There is currently a high demand for Public Safety Professionals at the federal, state, and local governmental levels, as well as throughout the public safety industry. This program provides a high quality education in public safety planning, public safety legal issues, public policy, public safety research and technology, and public safety leadership.

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SIX REQUIRED COURSES:

- PSAD 304 Contemporary Public Safety Practices (3)
- PSAD 306 Public Safety Planning (3)
- PSAD 408 Public Safety Legal Issues and Public Policy (3)
- PSAD 410 Public Safety Research and Technology (3)
- PSAD 416 Public Safety Leadership (3)
- PSAD 414 Public Safety Administration Ethics (3)

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Leadership: 18

COURSE INFORMATION

UNDERGRADUATE COURSE DESCRIPTIONS

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WXVYGXYVIH TVSKVEQQMRK ERH WXIT [MWI VI▫RIQIRX 8LI SFNIGXMZI

is to design programs using pseudocode and implement them in an appropriate programming language. Hands-on practice in debugging, testing, and documenting is provided. Topics include principles of programming, the logic of constructing a computer program, and the practical aspects of integrating program modules into a cohesive application. Algorithms are used to demonstrate programming as an approach to 04D003.1854 Tm (Computer and)Tj EMCob ap solv

COURSE INFORMATION

UNDERGRADUATE COURSE DESCRIPTIONS

(% 8% HZ ERGIH (EXE 7GMIRGI
 Prerequisites: DATA 335 and DATA 430. A project-based introduction to the concepts, approaches, techniques, and technologies for managing and analyzing large data sets in support of improved decision making. Activities include using technologies such as 7TEVO ,MZI 4MK /EJOE ,EHSST ,&EWI analytics, container architectures, and streaming real-time platforms. Discussion covers how to identify the kinds of analyses to use with big data and how to interpret the results.

(% 8% (EXE)XLMGW
 Prerequisite: DATA 430. Recommended: CSIA 300. A study of ethics within the context of data science, machine learning, and EVXM ̢GMEP MRXIPPMKIRGI)QTLWMMW bias; building explainable, fair, trustable, and accurate predictive modeling systems; and reporting responsible results. Topics include the technology implications of human-centered machine PIEVRMRK ERH EVXM ̢GMEP MRXIPPMKIRGI tions and government and the broader impact on society, including multinational and global effects.

(% 8% % VXM ̢GMEP -RXIPPMKIRGI
 (IWMKRIH XS LIPT TVITEVI JSV XLI %;7 or Microsoft Designing and Implementing an Azure AI Solution exam.) Prerequisite: DATA 430. A hands-on, project-based study SJ EVXM ̢GMEP MRXIPPMKIRGI ERH QEGLM problems. Topics include natural language processing, computer vision, and speech recognition.

(% 8% (EXE 7GMIRGI 'ETWXSRI
 Prerequisites: DATA 440, DATA 445, and DATA 450. A project-based, practical application of the knowledge, technical skills, and critical thinking skills acquired during previous study designed to showcase the student's data science expertise. Individually selected projects include all phases of machine learning life G]GPIW ERH E TIIV VIZMI[IH ̢REP VITSVX EVI WIPIGXIH JVSQ WXYHIRX EJ ̢PMEXIH special government/private agency requests, or other faculty-approved sources in a wide range of domains, such as healthcare, ̢RERGMEP WIVZMGIW QEVOIXMRK WGMIRGIW ERH KSZIVRQIRX

- R J S V Q E X M S R 7] Management

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 *PYQI 'EWWERHVE GPSYH
 Recommended: IFSM 201 or IFSM 300. A hands-on, project-based introduction to databases, business intelligence, and data analytics. The aim is to design secure industry-standard databases and utilize business intelligence and data analytics techniques and technologies to support decision making. Topics include data and relational databases, SQL queries, business intelligence tools and alignment with business strategy, data analytics, and visualization techniques.

Mathematics

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 Prerequisite: MATH 108 or MATH 115. An introduction to calculus. 8LI KSEP MW XS HIQSRWXVEXI ¥YIRG] MR XLI P discusses mathematical ideas appropriately; and solve problems by identifying, representing, and modeling functional relationships.

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 Topics include functions, the sketching of graphs of functions, limits, continuity, derivatives and applications of the derivative, HI ̢RMXI ERH MRHI ̢RMXI MRXIKVEPW ERH GEP LMRI PIEVRMRK WSPYXMSRW XS GSQTPI\

Public Safety Administration

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 Recommended: PSAD 302. An investigation of contemporary strategic public safety practices. The goal is to apply the con- GITXW SJ LE ^n!2ÜIXIS BEGHH @EXMS -Á -°•P @ P ERH TVIWIRXEXMSR 8STMGW SVKERM^EXMSRW SV IQTPS]IVW

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COURSE INFORMATION

GRADUATE COURSE DESCRIPTIONS

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COURSE INFORMATION

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administration. The aim is to explore the history and modern mission of community colleges as engines of equity and economic mobility, the structure of community college systems across the United States, and key differences in governance, funding, and centralization of authority. Topics include the development of the student success movement, state and national issues, and the critical role of governance and governing boards in effective management. Emphasis is on developing an understanding of principles of good governance (e.g., policy governance, the board-CEO relationship, board stewardship and education, rogue board members, and other governance issues) and the ability to lead with board support.

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% WYVZI] SJ WMKRM GERX XSTMGW MR GSQQYRMX] GSPPIKI TSPMG] ERH

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UNIVERSITY SYSTEM

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ABOUT UMGC

University of Maryland Global Campus was founded more than 70 years ago specifically to serve the higher education needs of working adults and servicemembers. Today, UMGC continues its global tradition with online and hybrid courses, more than 170 classroom and service locations worldwide, and more than 90 degrees, certificates, and specializations backed by the reputation of a state university and the University System of Maryland. For more information, visit umgc.edu.

Visit UMGC on the web at umgc.edu.

To speak with an advisor or success coach, call [800-888-8682](tel:800-888-8682) or send an email to [WXYHIRXW@VWX\\$YQK](mailto:WXYHIRXW@VWX$YQK)

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