PROGRAM DUPLICATION/ PROLIFERATION REPORT:

2017 COLLEGIATE PROGRAM ACTIONS BY THE MARYLAND HIGHER EDUCATION COMMISSION

MSAR #2387

February 2018

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EXECUTIVE SUMMARY

In accordance with § 11-206.1 of the Education Article, this report addresses the issue of program duplication and proliferation among collegiate program approvals granted by the Maryland Higher Education Commission (MHEC) in 2017. Specifically, MHEC is required to:

(1) Monitor the program development and review process established under this section;

(2) Report annually to the Governor and, in accordance with § 2-1246 of the State Government Article, the General Assembly on the nature and extent of any duplication or proliferation of programs; and

(3) Make available a copy of the report under item (2) of this subsection to the public institutions of higher education and the private nonprofit institutions of higher education.

This report is divided into six sections and includes the approval of new degree programs, certificate programs, and areas of concentration at both in-state and out-of-state institutions. It also includes the acknowledgment of new institutional partnership agreements and the approval of existing programs approved for off-site delivery. Finally, it includes the number of suspended and discontinued programs, program proposals withdrawn, partnerships, off-campus programs, and program proposals not approved or recommended.

Section I includes a summary of all MHEC program proposal actions taken in 2017. Section II provides an analysis of new degree programs approved for offering by Maryland in-state colleges and universities at the associate, bachelor's, master's, and doctoral levels. It includes an indication of whether at least one program of a similar nature is already offered at a Maryland in-state institution. A summary of the MHEC staff analysis process for duplication and proliferation is included, citing the applicable COMAR regulations. Section III contains a similar analysis for certificate programs, Section IV for areas of concentration, and Section V for academic programs from out-of-state institutions authorized to be offered in Maryland. Section VI provides a summary analysis of those programs that were not approved or recommended for implementation by MHEC in 2017. The Appendices list institutional partnerships, off-campus programs, proposals withdrawn, and programs that were suspended or discontinued.

In 2017, 140 of 224 (63%) approved in-state and out-of-state academic programs were determined by MHEC to be completely unique and not previously offered in Maryland. The remaining 84 academic programs were already offered by at least one in-state college or university and were determined to have met the standards for reasonable duplication. Academic programs include degrees and certificates, but not areas of concentration within degree programs. Areas of concentration may only be offered within approved degree programs.

SECTION I
2017 MHEC COLLEGIATE PROGRAM ACTIONS SUMMARY

New Degree Programs:	33	at independent colleges and universities
	12	at public four-year colleges and universities
	22	at public community colleges
New Certificate Programs:	23	at independent colleges and universities
	23	at public four-year colleges and universities
	16	at public community colleges
New Areas of Concentration:	5	at independent colleges and universities
	0	at public four-year colleges and universities
	200	at public community colleges
Out-of-State Institutions:	10	new programs
	39	renewal programs
	46	conditionally approved programs
	26	new areas of concentration
Proposals Not Approved/Recommended:	1	in-state proposals
	0	out-of-state proposals
Institutional Program Partnerships:	31	close site / off-campus program delivery
	1	new partnership agreements
Programs Suspended/Discontinued:	8	at independent colleges and universities
	7	at public four-year colleges and universities
	17	at public community colleges
Proposals Withdrawn:	6	in-state proposals
	7	out-of-state proposals
Total Program Proposal Actions:	**533**	

SECTION II

**ANALYSIS OF NEW DEGREE PROGRAMS OFFERED BY
MARYLAND COLLEGES AND UNIVERSITIES**

In 2017 a total of 67 new degree programs at in-state institutions were either approved (applies to public institutions) or recommended for implementation (applies to independent institutions) by MHEC. By segment, 33 of these programs were recommended for independent colleges and universities, 12 approved for public four-year colleges and universities, and 22 approved for public community colleges. They are listed by degree type below, with the approval or recommendation date.

Associate Degrees

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Human Services Counseling	AAS	Community College of Baltimore County	4/20/17	N
Transportation & Logistics - Transportation Management	AAS	Cecil College	4/20/17	Y
Social Sciences	AA	Frederick Community College	5/10/17	Y
Electrical and Electronic Systems Technology Service Management	AAS	Lincoln College of Technology	5/10/17	N
Digital Forensics	AAS	Community College of Baltimore County	5/17/17	N
Leadership and Management	AAS	Cecil College	5/25/17	N
Chemistry	AS	Cecil College	6/2/17	N
Medical Administrative Assistant	AAS	Allegany College of Maryland	6/10/17	N
Hospitality Management	AAS	Frederick Community College	6/21/17	Y
Computer Science	AS	Garrett College	6/21/17	Y
Paralegal	AAS	Allegany College of Maryland	6/30/17	Y
Arts and Humanities	AA	Frederick Community College	7/19/17	Y
Health Information Technology	AAS	Hagerstown Community College	7/24/17	Y
Bioinformatics	AS	Montgomery College	8/1/17	N
Physics	AS	Cecil College	8/1/17	N
Mathematics and Science	AS	College of Southern Maryland	8/1/17	N
Pre-Professional Health Science	AS	College of Southern Maryland	8/1/17	N
Science, Technology, Engineering, and Math	AS	Frederick Community College	8/14/17	N

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Construction Management	AAS	Anne Arundel Community College	8/31/17	Y
Biological Science	AS	Cecil College	9/20/17	Y
Art and Design	AFA	Harford Community College	10/23/17	N
Mechanical Engineering	AS	Cecil College	12/11/17	N
Maritime Operations Technology	AAS	College of Southern Maryland	12/14/17	N

Bachelor's Degrees

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Applied Liberal Studies	BS	Morgan State University	1/23/17	Y
Urban and Regional Planning	BS	Salisbury University	2/1/17	N
Sales Management & Leadership	BS	Stevenson University	3/7/17	N
Elementary Education	BA	McDaniel College	5/1/17	Y
Product Design	BFA	Maryland Institute College of Art	5/1/17	N
Game Design	BFA	Maryland Institute College of Art	5/12/17	N
Entrepreneurship	BS	Mount St. Mary's University	7/17/17	Y
Music Therapy	BMT	Washington Adventist University	7/20/17	N
Dance	BFA	Johns Hopkins University	8/27/17	Y
Art Therapy	BA	Notre Dame of Maryland University	8/27/17	N
Liberal Arts	BA	Notre Dame of Maryland University	8/27/17	Y
Environmental Science	BS	Johns Hopkins University	8/29/17	Y
Business Analytics	BS	Capitol Technology University	10/16/17	N
Unmanned & Autonomous Systems	BS	Capitol Technology University	12/8/17	N

Master's Degrees

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Filmmaking	MFA	Maryland Institute College of Art	1/23/17	N
Career and Technology Education	MEd	University of Maryland Eastern Shore	1/25/17	N
Cultural Heritage Management	MA	Johns Hopkins University	2/1/17	N
Individualized Genomics and Health	MS	Johns Hopkins University	3/2/17	N
Educational Technology	MEd	Loyola University of Maryland	3/17/17	N
Community-Based Education & Leadership	MA	Stevenson University	4/6/17	N
Applied and Computational Mathematics	MS	Johns Hopkins University	5/9/17	N
Quantitative Finance	MQF	University of Maryland College Park	5/25/17	Y
Transformational Leadership	MS	University of Maryland College Park	6/12/17	N
Forensic Investigation	MS	Stevenson University	6/13/17	N
Forensic Science	MFS	Stevenson University	6/13/17	N
Population Health Management	MAS	Johns Hopkins University	6/14/17	N
Patient Safety and Healthcare Quality	MAS	Johns Hopkins University	6/14/17	N
Cybersecurity	MS	Hood College	7/20/17	Y
Digital Forensics	MS	Stevenson University	8/1/17	N
Forensic Accounting	MS	Stevenson University	8/1/17	Y
Applied Physics	MS	Johns Hopkins University	8/1/17	Y
Nursing	MS	Frostburg State University	8/1/17	Y
Illustration	MA	Maryland Institute College of Art	8/21/17	N
Crime Scene Investigation	MS	Stevenson University	8/30/17	N
Graphic Design	MA	Maryland Institute College of Art	9/12/17	N
Environmental Health Sciences	MS	University of Maryland College Park	9/27/17	Y
Cyber Analytics	MS	Capitol Technology University	10/16/17	N
Cyber Operations	MS	University of Maryland University College	10/23/17	N
Acquisition and Contract Management	MS	University of Maryland University College	10/23/17	N
Strategic Communication	MS	University of Maryland University College	10/24/17	Y

Doctoral/Professional Degrees

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Nursing Practice – Family Nurse Practitioner	DNP	University of Maryland, Baltimore	2/21/17	N
Naturopathic Medicine	ND	Maryland University of Integrative Health	8/3/17	N
Environmental Health Sciences	PhD	University of Maryland College Park	9/27/17	N
Technology with a Master of Science in Research Methods	PhD	Capitol Technology University	11/8/17	N

Summary of New Degree Programs in 2017 by Discipline Type

Discipline	Associate Degrees	Bachelor's Degrees	Master's Degrees	Doctorate / Professional Degrees
Substance Abuse/Addiction Counseling	1			
Transportation/Mobility Management	1			
Social Sciences, General	1			
Electrician	1			
Digital Forensics	1			
Organizational Leadership	1		1	
Science Technologies/Technicians, Other	1			
Chemistry, General	1			
Medical Administrative/Executive Assistant and Medical Secretary	1			
Hotel/Motel Administration/Management	1			
Computer and Information Sciences, General	1			
Legal Assistant/Paralegal	1			
Liberal Arts and Sciences, General Studies and Humanities, other	1			
Health Information/Medical Records Technology/Technician	1			
Bioinformatics	1			
Physics, General	1			
Multi-Interdisciplinary Studies, General	1			
Health/Medical Preparatory Programs, Other	1			
Construction Management	1			
Biology/Biological Sciences, General	1			
Fine/Studio Arts, General	1			
Design and Visual Communications, General.	1			
Mechanical Engineering	1			
Liberal Arts and Sciences/Liberal Studies		1		
City/Urban, Community and Regional Planning		1		

Discipline	Associate Degrees	Bachelor's Degrees	Master's Degrees	Doctorate / Professional Degrees
Selling Skills and Sales Operations		1		
Elementary Education and Teaching		1		
Industrial and Product Design		1		
Game and Interactive Media Design		1		
Entrepreneurship/Entrepreneurial Studies		1		
Music Therapy/Therapist		1		
Dance, General		1		
Art Therapy/Therapist		1		
Multi-Interdisciplinary Studies, Other		1		
Environmental Science		1		
Management Science		1		
Mechatronics, Robotics, and Automation Engineering		1		
Cinematography and Film/Video Production			1	
Technology Teacher Education/Industrial Arts Teacher Education			2	
Cultural Resource Management and Policy Analysis			1	
Genome Sciences/Genomics			1	
Education, Other			1	
Applied Mathematics, General			1	
Financial Mathematics			1	
Forensic Science and Technology			2	
Health/Health Care Administration/Management			2	
Computer and Information Systems Security/Information Assurance			3	
Cyber/Computer Forensics and Counterterrorism			1	
Financial Forensics and Fraud Investigation			1	
Physics, Other			1	
Family Practice Nurse/Nursing			1	
Psychiatric/Mental Health Nurse/Nursing			1	
Illustration			1	
Criminalistics and Criminal Science			1	
Graphic Design			1	
Environmental Health			1	1
Purchasing, Procurement/Acquisitions and Contracts Management			1	
Public Relations/Image Management			1	
Nursing Practice				1
Naturopathic Medicine/Naturopathy				1
Total	**23**	**14**	**27**	**3**

MHEC Staff Analysis for Proliferation or Duplication

Of the 67 degree programs at in-state institutions that were approved or recommended for implementation by MHEC in 2017, 22 were already being offered by at least one other in-state college or university. In the tables above, those programs are marked with a "Y" in the column titled "Offered Elsewhere in Maryland." In these cases, MHEC staff determined that such duplication was reasonable. The remaining 45 programs, marked with an "N" in the column titled "Offered Elsewhere in Maryland," were determined to be unique programs that were not currently being offered at any other in-state college or university.

The Collegiate Unit in MHEC's Division of Academic Affairs conducts reviews of program proposals submitted by both in-state and out-of-state institutions. The Collegiate Unit distributes each proposal to all in-state institutions for review and comment, and considers any comments or objections submitted during the review of the program proposals. In-state program proposal reviews are governed by COMAR 13B.02.03.06 and use the following criteria:

- Centrality to institutional mission statement and planning priorities
- Critical and compelling regional or Statewide need as identified in the State Plan
- Quantifiable and reliable evidence and documentation of market supply and demand in the region and service area
- Reasonableness of program duplication, if any
- Relevance to the implementation or maintenance of high-demand programs at HBIs
- Relevance to the support of the uniqueness and institutional identities and missions of HBIs
- Adequacy of curriculum design and delivery to related learning outcomes
- Adequacy of faculty resources
- Adequacy of library resources
- Adequacy of physical facilities, infrastructure, and instructional equipment
- Adequacy of financial resources
- Adequacy of provisions for evaluation of program
- Consistency with the Commission's minority student achievement goals
- Relationship to low productivity programs identified by the Commission[1]

When determining if proposed programs are duplicative of similar programs in the State and/or same geographic area, MHEC staff members conduct a Classification of Instructional Program Standard Occupational Code (CIP-SOC) analysis in order to establish a crosswalk between academic programs and relevant occupations. Every program approved by MHEC receives a CIP code to facilitate both state and federal reporting. CIP and SOC are databases managed by the U.S. Department of Education and Bureau of Labor Statistics, respectively. Further, data from the Maryland Department of Labor, Licensing, and Regulation (DLLR) are used to determine regional and statewide occupational demand projections, and MHEC's Enrollment Trends (E-Trends) and Degree Trends (D-Trends) databases are reviewed to analyze the student and graduate supply pipelines for a given academic program.

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[1] This consideration applies only to enrollment trends at in-state institutions.

In-state program proposals reviews are further governed by COMAR 13B.02.03.08 and COMAR 13B.02.03.09, which are regulations that address the need for proposed programs and duplication of proposed programs, respectively. These are included in the two tables below:

COMAR 13B.02.03.08: Need for the Proposed Program

A. A proposed program shall meet a critical and compelling regional or Statewide need as identified in the State Plan.
 	
B. A program proposal shall clearly demonstrate demand and need for the program in terms of meeting present and future needs of the region and the State in general. Four kinds of needs may be identified:
    (1) The need for the advancement and evolution of knowledge;
    (2) Societal needs, including expanding educational opportunities and choices for minority and educationally disadvantaged students at institutions of higher education;
    (3) Occupational and professional needs relative to upgrading vocational/ technical skills or meeting job market requirements; and
    (4) The need to strengthen and expand the capacity of historically black institutions to provide high quality and unique educational programs.
 	
C. The Commission recognizes and supports the tradition of liberal arts education and the need for programs that offer individual and societal benefits independent of manpower or market demand considerations. These programs provide immeasurable returns to the State in part by instilling in citizens a capacity for advanced learning and an understanding of the fundamentals of civilization.
 	
D. Market Demand Data.
    (1) This section does not apply to programs in the liberal arts and sciences.
    (2) An institution proposing a new program shall present data projecting market demand and the availability of openings in the job market to be served by the new program. The types of information submitted vary, depending on the program, but may include manpower and employment projections prepared by the Maryland Department of Labor, Licensing, and Regulation, Bureau of Labor Statistics, Census Data, and the Maryland Department of Business and Economic Development as well as professional and trade associations.
    (3) An institution shall conduct market surveys that clearly provide quantifiable and reliable data from prospective employers on the educational and training needs and the anticipated number of vacancies expected over the next 5 years.
    (4) In assessing demand for a new program, an institution shall also present data showing the current and projected supply of prospective graduates.
 	
E. Identification of Programs Having Market Demand.
    (1) The Commission shall identify, on a regular basis, programs that are in market demand in Maryland.
    (2) For each program identified, the Commission shall also provide an indication of minority participation rates, identifying those programs where minorities are underrepresented.
    (3) Institutions maintaining a role and mission appropriate and consistent with those fields declared as shortage areas are encouraged to develop specific programs.

(4) Proposals submitted in response to a declared shortage area do not need to include additional documentation on market demand and supply data.

F. As an additional indicator of need, an institution shall clearly detail how program success will be defined and measured, particularly if the definition includes measures in addition to the conferral of a degree or certificate.

COMAR 13B.02.03.09 Duplication of the Proposed Program

A. The elimination of unreasonable program duplication is a high priority. Ordinarily, proposed programs in undergraduate core programs consisting of basic liberal arts and sciences disciplines are not considered unnecessarily duplicative. Unreasonable duplication is a more specific concern in vocational/technical, occupational, graduate, and professional programs which meet special manpower needs. The issue of how a proposed program meets an institution's local and State area needs shall be addressed.

B. Evidence demonstrating that a proposed program is not duplicative of similar offerings in the State shall be submitted by the institution. At a minimum, this evidence shall be substantiated on the basis that the proposed program to be offered is not unreasonably duplicative of existing programs in a specific geographically proximate location in the State.

C. Determination of Duplication.
    (1) In determining whether a program is unreasonably duplicative, the Secretary shall consider:
    (a) The degree to be awarded;
    (b) The area of specialization;
    (c) The purpose or objectives of the program to be offered;
    (d) The specific academic content of the program;
    (e) Evidence of equivalent competencies of the proposed program in comparison to existing programs;
    (f) An analysis of the market demand for the program.
    (2) The analysis shall include an examination of factors, including:
    (a) Role and mission;
    (b) Accessibility;
    (c) Alternative means of educational delivery including distance education;
    (d) Analysis of enrollment characteristics;
    (e) Residency requirements;
    (f) Admission requirements; and
    (g) Educational justification for the dual operation of programs broadly similar to unique or high-demand programs at HBIs.

SECTION III

**ANALYSIS OF NEW CERTIFICATE PROGRAMS OFFERED BY
MARYLAND COLLEGES AND UNIVERSITIES**

In 2017, a total of 62 certificate programs at in-state institutions were approved or recommended for implementation by MHEC. By segment, 23 of these programs were recommended for independent colleges and universities, 23 approved for public four-year colleges and universities, and 16 approved for public community colleges. They are listed chronologically by certificate level below, with the institution and approval or recommendation date.

Lower-Division Certificates

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Sign Language Interpreter Preparatory Program	LDC	Frederick Community College	2/22/17	N
Electrical and Electronic Systems Technology	LDC	Lincoln College of Technology	4/20/17	N
Elder Care	LDC	Community College of Baltimore County	4/20/17	N
Adolescent Behavioral Health Counseling	LDC	Community College of Baltimore County	4/20/17	N
Human Services Generalist	LDC	Community College of Baltimore County	4/20/17	N
Behavioral Health Counseling Trainee	LDC	Community College of Baltimore County	4/20/17	N
Behavioral Health Counseling	LDC	Community College of Baltimore County	4/20/17	N
Literacy Education	LDC	Stevenson University	5/1/17	N
At-Risk Youth Practitioner	LDC	Community College of Baltimore County	5/10/17	N
Supply Chain Management	LDC	Cecil College	5/10/17	N
Massage Therapy	LDC	Allegany College of Maryland	5/17/17	Y
Spanish Language	LDC	Allegany College of Maryland	5/17/17	N
Cloud Computing - CFED	LDC	Montgomery College	5/17/17	N
EMS - Paramedic	LDC	Carroll Community College	6/30/17	Y
Data Science	LDC	Montgomery College	8/29/17	N
Production Design	LDC	Anne Arundel Community College	8/30/17	N
Public Health	LDC	Cecil College	11/8/17	N
Health Navigator	LDC	Cecil College	11/20/17	N

Upper-Division Certificates

Program Title	Degree	Institution	Action Date	Offered Elsewhere in Maryland
Leadership and Entrepreneurship	UDC	Notre Dame University of Maryland	5/8/17	N
Fraud and Forensic Accounting	UDC	Salisbury University	6/19/17	N
Health Information Technology	UDC	University of Maryland Baltimore County	6/29/17	N
Special Education	UDC	University of Maryland Eastern Shore	7/13/17	N

Post-Baccalaureate Certificates

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Quality, Patient Safety and Outcomes Research	PBC	Johns Hopkins University	2/6/17	N
Research Administration	PBC	University of Maryland, Baltimore	2/16/17	N
Research Implementation and Dissemination	PBC	University of Maryland, Baltimore	2/17/17	N
Science Communication	PBC	University of Maryland, Baltimore	2/17/17	N
Integrative Health and Wellness	PBC	University of Maryland, Baltimore	2/22/17	N
Public Health Advocacy	PBC	Johns Hopkins University	3/9/17	N
Instructional Leadership	PBC	Mount St. Mary's University	3/9/17	N
Applied Music	PBC	Towson University	5/1/17	N
Health Information Technology	PBC	Towson University	5/30/17	N
Computer Forensics	PBC	Towson University	5/30/17	N
Public Policy Program	PBC	University of Maryland College Park	5/30/17	N
Population Health Management	PBC	Johns Hopkins University	6/14//17	N
Evaluation of International Health Programs	PBC	Johns Hopkins University	6/15/17	N
Quality Assurance and Regulatory Science	PBC	Mount St. Mary's University	6/27/17	N
Nonprofit Management and Leadership	PBC	University of Maryland College Park	6/29/17	N
STEM Education Leadership	PBC	University of Maryland Baltimore County	6/29/17	N
Integrated Product Development and Manufacturing	PBC	University of Maryland Baltimore County	6/29/17	N

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Special Education	PBC	University of Maryland Easter Shore	7/13/17	N
Project Management	PBC	University of Maryland Baltimore County	7/18/17	Y
International Healthcare Management & Leadership	PBC	Johns Hopkins University	7/20/17	N
Spatial Analysis for Public Health	PBC	Johns Hopkins University	9/27/17	N
Reactive and convert Distance Ed & E-Learning into a closed site	PBC	UMUC	10/20/17	N
Learning Design and Technology	PBC	UMUC	10/20/17	Y
Lesbian, Gay, Bisexual, Transgender, and Queer Public Health	PBC	Johns Hopkins University	10/23/17	N
Government Financial Management	PBC	University of Baltimore	10/30/17	N
Wireless Communications	PBC	University of Maryland College Park	11/6/17	N
Computing Systems	PBC	University of Maryland College Park	11/8/17	N
Networking Software Development	PBC	University of Maryland College Park	11/16/17	N
Educational Leadership	PBC	Hood College	11/21/17	N
International Research Administration Management	PBC	Johns Hopkins University	11/28/17	N
Crime Scene Investigation	PBC	Stevenson University	12/4/17	N
Digital Forensics	PBC	Stevenson University	12/4/17	N
Forensic Accounting	PBC	Stevenson University	12/4/17	Y
Forensic Investigation	PBC	Stevenson University	12/4/17	N
Quality Management and Patient Safety	PBC	Stevenson University	12/4/17	N
Regulatory Science	PBC	University of Maryland Baltimore	12/8/17	N

Post-Master Certificates

Program Title	Degree	Institution	Action Date	Offered Elsewhere in Maryland
Nurse Administrator	PMC	Notre Dame University of Maryland	5/9/17	N
Nurse Educator	PMC	Notre Dame University of Maryland	5/9/17	Y
Applied and Computational Mathematics	PMC	Johns Hopkins University	5/9/17	N
Pediatric Acute Care Nurse Practitioner	PMC	Johns Hopkins University	5/9/17	Y

Summary of New Certificate Programs in 2017 by Discipline Type

Discipline	Lower Division (LDC)	Upper Division (UDC)	Post Baccalaureate Certificates (PBC)	Post Master's Certificates (PMC)	Certificate of Advanced Studies
Allied Health/Health-related	4		4	3	
Aviation					
Business / Management / Finance / Economics	1	1	4		
Communication/Media/Marketing	1		2		
Computer and Information Systems Security / Information Assurance	2		5		
Community Health Services/Liaison/Counseling	2		2		
Counseling/Psychology	1				
Criminal Justice			2		
Cybersecurity					
Education	2	1	4		
Electrician	1				
Engineering/Engineering Technology					
Exercise Science					
Fine Arts			1		
Humanities/Liberal Arts	1		1		
Industry/Labor			1		
Interdisciplinary Studies					
Library Science					
Math				1	
Massage Therapy	1				
Mechatronics, Robotics, and Automation Engineering					

Discipline	Lower Division (LDC)	Upper Division (UDC)	Post Baccalaureate Certificates (PBC)	Post Master's Certificates (PMC)	Certificate of Advanced Studies
Occupational Safety and Health Technology			2		
Organizational Leadership		1	4		
Religious Studies					
Restaurant Culinary, and Catering Management/Manager					
Science (Physical/Biological)					
Social Work/Social Science	2				
Transportation/Mobility Management					
Public Affairs, Public Administration	1		4		
Total	**19**	**3**	**36**	**4**	**0**

MHEC Staff Analysis for Proliferation or Duplication

Of the 62 certificate programs at in-state institutions that were approved or recommended for implementation by MHEC in 2017, 7 were already being offered by at least one other in-state college or university. In the tables above, those programs are marked with a "Y" in the column titled "Offered Elsewhere in Maryland." In these cases, MHEC staff determined that such duplication was reasonable. The remaining 55 programs, marked with an "N" in the column titled "Offered Elsewhere in Maryland," were determined to be unique programs that were not currently being offered at any other in-state college or university.

As mentioned in Section I of this report, the Collegiate Unit in MHEC's Division of Academic Affairs conducts reviews of program proposals submitted by both in-state and out-of-state colleges and universities. This includes new certificate programs. The proposal review for certificate programs is governed by COMAR 13B.02.03.06 and follows the same methodology outlined in the previous section of this report. The occasional exception to this process is a proposed certificate program in which the proposed curriculum already exists within an approved degree program. COMAR 13B.02.03.25D allows institutions to submit a truncated proposal for such programs, although MHEC staff still review the proposal to ensure that it (1) explains the centrality of the proposed certificate program to the mission of the institution; (2) provides evidence of the market demand for the proposed certificate program; (3) sets out the curriculum design; and (4) shows that adequate faculty resources exist for the proposed certificate program.

SECTION IV

**ANALYSIS OF NEW AREAS OF CONCENTRATION OFFERED BY
MARYLAND COLLEGES AND UNIVERSITIES**

In 2017, a total of 205 Areas of Concentration at in-state institutions were approved or recommended for implementation by MHEC. Five of these programs were recommended for independent colleges and universities, none were approved for public four-year colleges and universities, and 200 were approved for public community colleges. They are listed chronologically by degree level below, with the institution and approval or recommendation date listed.

COMAR considers the addition of an Area of Concentration as a "substantial modification" to an existing degree program rather than a new academic program. Areas of Concentration may also be proposed at the time a degree program is originally being approved. Consequently, they are reviewed in accordance with COMAR 13B.02.03.06. Areas of Concentration are recognized for degrees at the associate's, bachelor's, master's, or doctoral levels.

Associate Degree Areas of Concentration

Area of Concentration	Program Title	Degree Level	Institution	Action Date
Human Services	Child Youth Care Practitioner	Associate	Community College of Baltimore County	4/20/17
Behavioral Health Counseling	Arts and Sciences	Associate	Community College of Baltimore County	4/20/17
Art	Arts and Sciences	Associate	Allegany College of Maryland	4/24/17
Biology	Arts and Sciences	Associate	Allegany College of Maryland	4/24/17
Chemistry	Arts and Sciences	Associate	Allegany College of Maryland	4/24/17
English	Arts and Sciences	Associate	Allegany College of Maryland	4/24/17
Health and Physical Education	Arts and Sciences	Associate	Allegany College of Maryland	4/24/17
Health Promotion	Arts and Sciences	Associate	Allegany College of Maryland	4/24/17
History	Arts and Sciences	Associate	Allegany College of Maryland	4/24/17
Nanotechnology	Arts and Sciences	Associate	Allegany College of Maryland	4/24/17
Physics	Arts and Sciences	Associate	Allegany College of Maryland	4/24/17
Psychology	Arts and Sciences	Associate	Allegany College of Maryland	4/24/17
Social Work Transfer	Arts and Sciences	Associate	Allegany College of Maryland	4/24/17

Area of Concentration	Program Title	Degree Level	Institution	Action Date
Sociology	Arts and Sciences	Associate	Allegany College of Maryland	4/24/17
Business Accounting	Arts and Sciences	Associate	Allegany College of Maryland	4/24/17
Business Economics	Arts and Sciences	Associate	Allegany College of Maryland	4/24/17
Programming	Computer Technology	Associate	Allegany College of Maryland	4/24/17
Technical Support	Computer Technology	Associate	Allegany College of Maryland	4/24/17
Web Development	Computer Technology	Associate	Allegany College of Maryland	4/24/17
Criminology Transfer	Criminal Justice	Associate	Allegany College of Maryland	4/24/17
Teacher Education/Early Childhood Education	Teacher Education	Associate	Allegany College of Maryland	4/24/17
Teacher Education / Elementary Education	Teacher Education	Associate	Allegany College of Maryland	4/24/17
Teacher Education / Secondary Education	Teacher Education	Associate	Allegany College of Maryland	4/24/17
Cybersecurity	Computer Technology	Associate	Allegany College of Maryland	5/17/17
Arabic	Arts and Sciences	Associate	Howard Community College	6/13/17
English	Arts and Sciences	Associate	Howard Community College	6/13/17
Exercise Science	Arts and Sciences	Associate	Howard Community College	6/13/17
Health Education	Arts and Sciences	Associate	Howard Community College	6/13/17
Human Services	Arts and Sciences	Associate	Howard Community College	6/13/17
Nutrition	Arts and Sciences	Associate	Howard Community College	6/13/17
Spanish	Arts and Sciences	Associate	Howard Community College	6/13/17
Television and Radio	Arts and Sciences	Associate	Howard Community College	6/13/17
Theatre	Arts and Sciences	Associate	Howard Community College	6/13/17
Women's Studies	Arts and Sciences	Associate	Howard Community College	6/13/17
Biology	Arts and Sciences	Associate	Hagerstown Community College	6/17/17
Chemistry	Arts and Sciences	Associate	Hagerstown Community College	6/17/17
Mathematics	Arts and Sciences	Associate	Hagerstown Community College	6/17/17

Area of Concentration	Program Title	Degree Level	Institution	Action Date
Physics	Arts and Sciences	Associate	Hagerstown Community College	6/17/17
Human Services	Arts and Sciences	Associate	Hagerstown Community College	6/17/17
Computer Aided Design	Mechanical Engineering Technology	Associate	Hagerstown Community College	6/17/17
Digital Forensics	Information Systems Technology	Associate	Hagerstown Community College	6/17/17
Computer Support Specialist	Information Systems Technology	Associate	Hagerstown Community College	6/17/17
Network Administration	Information Systems Technology	Associate	Hagerstown Community College	6/17/17
Simulation & Digital Entertainment	Information Systems Technology	Associate	Hagerstown Community College	6/17/17
Police Academy	Administration of Justice	Associate	Hagerstown Community College	6/17/17
Marketing	Management	Associate	Hagerstown Community College	6/17/17
Administration of Justice	Arts and Sciences	Associate	Hagerstown Community College	6/17/17
History	Education	Associate	Hagerstown Community College	6/17/17
Political Science	Arts and Sciences	Associate	Hagerstown Community College	6/17/17
Paralegal Studies	Arts and Sciences	Associate	Hagerstown Community College	6/17/17
Psychology	Arts and Sciences	Associate	Hagerstown Community College	6/17/17
Sociology	Arts and Sciences	Associate	Hagerstown Community College	6/17/17
English	Arts and Sciences	Associate	Hagerstown Community College	6/17/17
Graphic Design	Arts and Sciences	Associate	Hagerstown Community College	6/17/17
Sociology	Arts and Sciences	Associate	Hagerstown Community College	6/17/17
Music	Arts and Sciences	Associate	Hagerstown Community College	6/17/17
Theater	Arts and Sciences	Associate	Hagerstown Community College	6/17/17
Visual Arts	Arts and Sciences	Associate	Hagerstown Community College	6/17/17

Area of Concentration	Program Title	Degree Level	Institution	Action Date
Foreign Language	Arts and Sciences	Associate	Hagerstown Community College	6/17/17
Health, Physical Education, and Leisure Studies	Arts and Sciences	Associate	Hagerstown Community College	6/17/17
Fine and Performing Arts	Arts and Sciences	Associate	Garrett College	6/24/17
Liberal Arts	Arts and Sciences	Associate	Garrett College	6/24/17
Math-Science	Arts and Sciences	Associate	Garrett College	6/24/17
Psychology	Arts and Sciences	Associate	Garrett College	6/24/17
Social and Behavioral Sciences	Arts and Sciences	Associate	Garrett College	6/24/17
Business, Management, and Entrepreneurship	Business Information Technology	Associate	Garrett College	6/24/17
Graphic/Web Design	Business Information Technology	Associate	Garrett College	6/24/17
Network Administration	Cybersecurity	Associate	Garrett College	6/24/17
Early Childhood Education	Teacher Education	Associate	Garrett College	6/24/17
Elementary Education	Teacher Education	Associate	Garrett College	6/24/17
Secondary Education	Teacher Education	Associate	Garrett College	6/24/17
Health and Physical Education	Teacher Education	Associate	Garrett College	6/24/17
Art	Arts and Sciences	Associate	Montgomery College	6/26/17
Music	Arts and Sciences	Associate	Montgomery College	6/26/17
International Studies	Arts and Sciences	Associate	Montgomery College	6/26/17
Theatre Technical	Arts and Sciences	Associate	Montgomery College	6/26/17
Theatre Performance	Arts and Sciences	Associate	Montgomery College	6/26/17
Physical Education Teacher Education	Arts and Sciences	Associate	Montgomery College	6/26/17
Exercise Science	Arts and Sciences	Associate	Montgomery College	6/26/17
Dance	Arts and Sciences	Associate	Montgomery College	6/26/17
Studies in Science, Technology, Engineering, and Mathematics	General Studies	Associate	Montgomery College	6/26/17
Studies in Social Sciences, Administration, and Health Integrated Studies	General Studies	Associate	Montgomery College	6/26/17
Studies in Humanities, Arts, Communication, and Languages	General Studies	Associate	Montgomery College	6/26/17
Integrated Studies	General Studies	Associate	Montgomery College	6/26/17
Aerospace Engineering	Engineering Science	Associate	Montgomery College	6/26/17

Area of Concentration	Program Title	Degree Level	Institution	Action Date
General Engineering	Engineering Science	Associate	Montgomery College	6/26/17
Materials Science and Engineering	Engineering Science	Associate	Montgomery College	6/26/17
Bioengineering	Engineering Science	Associate	Montgomery College	6/26/17
Chemical Engineering	Engineering Science	Associate	Montgomery College	6/26/17
Mechanical Engineering	Engineering Science	Associate	Montgomery College	6/26/17
Civil Engineering	Engineering Science	Associate	Montgomery College	6/26/17
Computer Engineering	Engineering Science	Associate	Montgomery College	6/26/17
Electrical Engineering	Engineering Science	Associate	Montgomery College	6/26/17
Fire Protection Engineering	Engineering Science	Associate	Montgomery College	6/26/17
Nuclear Engineering	Engineering Science	Associate	Montgomery College	6/26/17
Television	Broadcast Media and Production	Associate	Montgomery College	6/26/17
Radio	Broadcast Media and Production	Associate	Montgomery College	6/26/17
Biological Science	Science	Associate	Montgomery College	6/26/17
Chemistry and Biochemistry	Science	Associate	Montgomery College	6/26/17
Environmental Science and Policy	Science	Associate	Montgomery College	6/26/17
Mathematics	Science	Associate	Montgomery College	6/26/17
Physics	Science	Associate	Montgomery College	6/26/17
Computer Science	Computer Science and Technology	Associate	Montgomery College	6/26/17
Information Sciences and System	Computer Science and Technology	Associate	Montgomery College	6/26/17
Architecture	Architectural and Construction Technology	Associate	Montgomery College	6/26/17
Management of Construction	Architectural and Construction Technology	Associate	Montgomery College	6/26/17
Pre-Professional General	Interior Design and Pre-Professional	Associate	Montgomery College	6/26/17
Interior Design-Pre-Professional	Interior Design and Pre-Professional	Associate	Montgomery College	6/26/17

Area of Concentration	Program Title	Degree Level	Institution	Action Date
HVAC	Building Trades Technology	Associate	Montgomery College	6/26/17
Carpentry	Building Trades Technology	Associate	Montgomery College	6/26/17
Electric Wiring	Building Trades Technology	Associate	Montgomery College	6/26/17
Management/Supervision	Hospitality Management	Associate	Montgomery College	6/26/17
Food and Beverage Management	Hospitality Management	Associate	Montgomery College	6/26/17
Echocardiography	Diagnostic Medical Sonogram	Associate	Montgomery College	6/26/17
General Sonography	Diagnostic Medical Sonogram	Associate	Montgomery College	6/26/17
Vascular	Diagnostic Medical Sonogram	Associate	Montgomery College	6/26/17
Community Health	Community Health	Associate	Montgomery College	6/26/17
Graphic Design	Graphic Design	Associate	Montgomery College	6/26/17
Graphic Design Illustrator	Graphic Design	Associate	Montgomery College	6/26/17
Creative Writing	Arts and Sciences	Associate	Carroll Community College	6/27/17
Criminal Justice	Arts and Sciences	Associate	Carroll Community College	6/27/17
English Literature	Arts and Sciences	Associate	Carroll Community College	6/27/17
Exercise Science	Arts and Sciences	Associate	Carroll Community College	6/27/17
Health Science	Arts and Sciences	Associate	Carroll Community College	6/27/17
Journalism	Arts and Sciences	Associate	Carroll Community College	6/27/17
Psychology	Arts and Sciences	Associate	Carroll Community College	6/27/17
Sociology/Anthropology	Arts and Sciences	Associate	Carroll Community College	6/27/17
Social Work	Arts and Sciences	Associate	Carroll Community College	6/27/17
Visual Arts	Arts and Sciences	Associate	Carroll Community College	6/27/17
Accounting	Business Administration	Associate	Carroll Community College	6/27/17
International Business	Business Administration	Associate	Carroll Community College	6/27/17

Area of Concentration	Program Title	Degree Level	Institution	Action Date
Management Information Systems	Business Administration	Associate	Carroll Community College	6/27/17
Pre- Allied Health	Arts and Sciences	Associate	Howard Community College	6/27/17
Pre-Pharmacy	Arts and Sciences	Associate	Howard Community College	6/27/17
General Studies -Business, Leadership, Technology Emphasis	General Studies	Associate	Howard Community College	6/27/17
General Studies - Science Emphasis	General Studies	Associate	Howard Community College	6/27/17
CISCO Networking	Information Technology	Associate	Howard Community College	6/27/17
Cyber Forensics Technology	Information Technology	Associate	Howard Community College	6/27/17
Cybersecurity	Information Technology	Associate	Howard Community College	6/27/17
Mobile Development	Information Technology	Associate	Howard Community College	6/27/17
Programming	Information Technology	Associate	Howard Community College	6/27/17
Web Development	Information Technology	Associate	Howard Community College	6/27/17
Criminal Justice	General Studies	Associate	Prince George's Community College	6/30/17
Economics	General Studies	Associate	Prince George's Community College	6/30/17
Psychology	General Studies	Associate	Prince George's Community College	6/30/17
Sociology	General Studies	Associate	Prince George's Community College	6/30/17
Chemistry	General Studies	Associate	Prince George's Community College	6/30/17
Biology	General Studies	Associate	Prince George's Community College	6/30/17
Art	General Studies	Associate	Prince George's Community College	6/30/17
Music	General Studies	Associate	Prince George's Community College	6/30/17
English	General Studies	Associate	Prince George's Community College	6/30/17
Mass Communication	General Studies	Associate	Prince George's Community College	6/30/17
Public Relations and Journalism	General Studies	Associate	Prince George's Community College	6/30/17
Dietetics	General Studies	Associate	Prince George's Community College	6/30/17

Area of Concentration	Program Title	Degree Level	Institution	Action Date
Food Science	General Studies	Associate	Prince George's Community College	6/30/17
Health Education	General Studies	Associate	Prince George's Community College	6/30/17
Physical Education	General Studies	Associate	Prince George's Community College	6/30/17
Accounting	Business Administration	Associate	Prince George's Community College	6/30/17
Audio Production Tech	Stem Technology	Associate	Frederick Community College	8/14/17
CAD Technology	Stem Technology	Associate	Frederick Community College	8/14/17
Construction Management Tech	Stem Technology	Associate	Frederick Community College	8/14/17
Cybersecurity	Stem Technology	Associate	Frederick Community College	8/14/17
Data Science	Stem Technology	Associate	Frederick Community College	8/14/17
Information Technology Specialist	Stem Technology	Associate	Frederick Community College	8/14/17
Network Engineering	Stem Technology	Associate	Frederick Community College	8/14/17
Software Engineering	Stem Technology	Associate	Frederick Community College	8/14/17
Theatre / Technical Design and Production	Arts and Sciences	Associate	Community College of Baltimore County	8/21/17
Theatre / Performance	Arts and Sciences	Associate	Community College of Baltimore County	8/22/17
Philosophy	Arts and Sciences	Associate	Community College of Baltimore County	8/23/17
Theatre	Arts and Sciences	Associate	Community College of Baltimore County	8/24/17
Dance	Arts and Sciences	Associate	Community College of Baltimore County	8/24/17
Music	Arts and Sciences	Associate	Community College of Baltimore County	8/25/17
Visual Art and Design	Arts and Sciences	Associate	Community College of Baltimore County	8/25/17
Biology	Arts and Sciences	Associate	Community College of Baltimore County	8/26/17
Chemistry	Arts and Sciences	Associate	Community College of Baltimore County	8/27/17
Arts and Sciences - Communications	Gender and Sexuality Studies	Associate	Anne Arundel Community College	8/28/17
Psychology	Gender and Sexuality Studies	Associate	Anne Arundel Community College	8/28/17
Gender and Sexuality Studies	Gender and Sexuality Studies	Associate	Anne Arundel Community College	8/28/17

Area of Concentration	Program Title	Degree Level	Institution	Action Date
Computer Science	Arts and Sciences	Associate	Anne Arundel Community College	8/28/17
Information Systems	Arts and Sciences	Associate	Anne Arundel Community College	8/28/17
Game Development	Visual Arts	Associate	Anne Arundel Community College	8/28/17
Graphic Design	Visual Arts	Associate	Anne Arundel Community College	8/28/17
Web and Interactive Design	Visual Arts	Associate	Anne Arundel Community College	8/28/17
Media Production	Visual Arts	Associate	Anne Arundel Community College	8/28/17
Art History/Museum Studies	Visual Arts	Associate	Anne Arundel Community College	8/28/17
Game Art and Design	Visual Arts	Associate	Anne Arundel Community College	8/28/17
Photography	Visual Arts	Associate	Anne Arundel Community College	8/28/17
Studio Arts	Visual Arts	Associate	Anne Arundel Community College	8/28/17
Visual Design	Visual Arts	Associate	Anne Arundel Community College	8/28/17
Physics	Arts and Sciences	Associate	Community College of Baltimore County	8/28/17
Earth and Atmospheric Sciences	Arts and Sciences	Associate	Community College of Baltimore County	8/29/17
Environmental Sciences	Arts and Sciences	Associate	Community College of Baltimore County	8/30/17
Mathematics	Arts and Sciences	Associate	Community College of Baltimore County	8/31/17
Anthropology	Humanities and Social Science	Associate	Community College of Baltimore County	9/1/17
History	Humanities and Social Science	Associate	Community College of Baltimore County	9/2/17
Native American Studies	Humanities and Social Science	Associate	Community College of Baltimore County	9/3/17
Political Science	Humanities and Social Science	Associate	Community College of Baltimore County	9/4/17
Women's Studies	Humanities and Social Science	Associate	Community College of Baltimore County	9/5/17
Sociology	Humanities and Social Science	Associate	Community College of Baltimore County	9/6/17
Earth Science	Arts and Sciences	Associate	Anne Arundel Community College	12/4/17

Bachelor's Degree Areas of Concentration

Area of Concentration	Program Title	Institution	Action Date
Italian	Foreign Languages	Mt. St. Mary's University	6/23/17
Music for New Media	Performing Arts	Johns Hopkins University	10/24/17

Master's Degree Areas of Concentration

Area of Concentration	Program Title	Institution	Action Date
Regenerative and Stem cell Technologies	Biotechnology	Johns Hopkins University	11/16/17
International Research Administration Management	Research Administration	Johns Hopkins University	11/28/17

Doctoral Degree Areas of Concentration

Area of Concentration	Program Title	Institution	Action Date
Implementation Science	Public Health	Johns Hopkins University	3/30/17

SECTION V

ANALYSIS OF ALL NEW PROGRAMS OFFERED BY
OUT-OF-STATE (OOS) COLLEGES AND UNIVERSITIES

In 2017, a total of 95 academic programs from out-of-state institutions were granted authorization to operate in Maryland. These programs were required to gain authorization based on instructional components offered on the ground in Maryland (either classroom-based or experiential components, such as practica and internships). They are listed chronologically by award type below, with the authorization date listed. (Note: The aforementioned approvals include 10 new programs, 39 renewal programs, and 46 programs that were granted conditional authorization pending program approval from the Southern Maryland Higher Education Center.)

The programs in the tables below do not include fully online programs from out-of-state institutions that were issued registration under the requirements of Education Article § 11-202.2 of the Annotated Code of Maryland and COMAR 13B.05.01. Program duplication is not a criterion that can be used to determine whether to issue registration to fully online out-of-state programs.

Associate Degrees - OOS

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Advanced Culinary Arts	AAS	Stratford University	2/16/17	Y
Baking and Pastry Arts	AAS	Stratford University	2/16/17	Y
Medical Billing and Coding	AAS	Stratford University	2/16/17	N
Hotel and Restaurant Management	AAS	Stratford University	2/16/17	Y
Ministerial Leadership	AML	Southeastern University	5/10/17	N
General Education* (*New Program*)	AA	Southeastern University	5/10/17	N
Labor Studies	AS	SUNY Empire State College	10/23/17	N
Liberal Arts and Sciences – Early College Program	AA	Bard College	11/16/17	Y

Bachelor's Degrees - OOS

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Criminal Justice	BA	Ana G. Mendez Universidad Metropolitana	1/18/17	N
Elementary Education	BA	Ana G. Mendez Universidad del Turabo	2/16/17	N

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Secondary Education, Mathematics	BA	Ana G. Mendez Universidad del Turabo	2/16/17	N
Business Administration	BBA	Ana G. Mendez Universidad del Turabo	2/16/17	N
Nursing	BSN	Ana G. Mendez Universidad del Turabo	2/16/17	N
Community Health	BSCH	Ana G. Mendez Universidad del Turabo	2/16/17	N
Social Work* (*New Program*)	BSW	Ana G. Mendez Universidad del Turabo	2/16/17	N
Culinary Management	BA	Stratford University	2/16/17	Y
Hospitality Management	BA	Stratford University	2/16/17	Y
Health Information Management	BS	Stratford University	2/16/17	Y
Health Care Administration	BS	Stratford University	2/16/17	Y
Ministerial Leadership* (*New Program*)	BS	Southeastern University	5/10/17	N
Health Care Management	BS	Southern Illinois University – Carbondale at Walter Reed	5/10/17	Y
Nursing	BSN	Chamberlain University	8/21/17	Y
Labor Studies	BS	SUNY Empire State College	10/23/17	N

Master's Degrees - OOS

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Business Administration	MBA	Ana G. Mendez Universidad Metropolitana	1/18/17	N
Guidance and Counseling	MEd	Ana G. Mendez Universidad del Turabo	2/16/17	N
Teaching of English as a Second Language	MEd	Ana G. Mendez Universidad del Turabo	2/16/17	N
Nursing	MSN	Ana G. Mendez Universidad del Turabo	2/16/17	N
Public Affairs	MS	Ana G. Mendez Universidad del Turabo	2/16/17	N
Communications* (*New Program*)	MA	Ana G. Mendez Universidad del Turabo	2/16/17	N
Public Affairs* (*New Program*)	MA	Ana G. Mendez Universidad del Turabo	2/16/17	N
International Hospitality Management	MS	Stratford University	2/16/17	N

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Religious Education* (*New Program*)	MRE	Unification Theological Seminary	5/9/17	N
Divinity* (*New Program*)	MDiv	Unification Theological Seminary	5/9/17	N
Elementary Education (1 - 6) and Teacher of Students with Moderate Disabilities (PreK - 8); Licensure provided by Urban Teacher Center	MEd	Lesley University	6/2/17	N
Secondary Math (7 – 12) and Teacher of Students with Moderate Disabilities (6 – 12); Licensure provided by Urban Teacher Center	MEd	Lesley University	6/2/17	N
Administration	MS	Central Michigan University	9/20/17	Y
Work and Labor Policy	MA	SUNY Empire State College	10/23/17	N
Executive Master's in Leadership for D.C. Public School Leaders* (*New Program*)	EML	Georgetown University	12/21/17	N
Nursing	MSN	Georgetown University	12/21/17	Y

Certificates - OOS

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Advanced Culinary Arts	LDC	Stratford University	2/16/17	Y
General Administration	PBC	Central Michigan University	9/20/17	Y
Health Services Administration	PBC	Central Michigan University	9/20/17	Y
Human Resources Administration	PBC	Central Michigan University	9/20/17	Y
Information Resource Management	PBC	Central Michigan University	9/20/17	Y
International Administration	PBC	Central Michigan University	9/20/17	Y
Leadership	PBC	Central Michigan University	9/20/17	Y
Public Administration	PBC	Central Michigan University	9/20/17	Y
Project Management* (*New Program*)	PBC	Central Michigan University	9/20/17	Y
Training and Development* (*New Program*)	PBC	Central Michigan University	9/20/17	Y

* New Program

Conditionally Approved Associate Degrees - OOS

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Aeronautics	AS	Embry Riddle Aeronautical University	12/8/17	N
Aviation Maintenance	AS	Embry Riddle Aeronautical University	12/8/17	N
Aviation Business Administration	AS	Embry Riddle Aeronautical University	12/8/17	Y
Technical Management	AS	Embry Riddle Aeronautical University	12/8/17	Y

Conditionally Approved Bachelor's Degrees - OOS

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Aeronautics	BS	Embry Riddle Aeronautical University	12/8/17	Y
Aviation Maintenance	BS	Embry Riddle Aeronautical University	12/8/17	N
Technical Management	BS	Embry Riddle Aeronautical University	12/8/17	Y
Aviation Security	BS	Embry Riddle Aeronautical University	12/8/17	Y
Aviation Business Administration	BS	Embry Riddle Aeronautical University	12/8/17	Y
Emergency Services	BS	Embry Riddle Aeronautical University	12/8/17	Y
Engineering Technology	BS	Embry Riddle Aeronautical University	12/8/17	Y
Transportation	BS	Embry Riddle Aeronautical University	12/8/17	Y

Conditionally Approved Master's Degrees - OOS

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Flight Test Engineering	MS	Florida Institute of Technology	11/27/17	N
Business Administration	MBA	Florida Institute of Technology	11/27/17	Y
Aerospace Engineering	MS	Florida Institute of Technology	11/27/17	Y
Computer Information Systems	MS	Florida Institute of Technology	11/27/17	Y
Computer Science	MS	Florida Institute of Technology	11/27/17	Y
Acquisition and Contract Management	MS	Florida Institute of Technology	11/27/17	Y
Electrical Engineering	MS	Florida Institute of Technology	11/27/17	Y
Engineering Management	MS	Florida Institute of Technology	11/27/17	Y
Mechanical Engineering	MS	Florida Institute of Technology	11/27/17	Y
Public Administration	MPA	Florida Institute of Technology	11/27/17	Y
Management	MS	Florida Institute of Technology	11/27/17	Y
Aeronautical Science	MAS	Embry Riddle Aeronautical University	12/8/17	Y
Business Administration in Aviation	MBA	Embry Riddle Aeronautical University	12/8/17	N
Aviation Finance	MS	Embry Riddle Aeronautical University	12/8/17	N
Engineering Management	MS	Embry Riddle Aeronautical University	12/8/17	Y
Information Security and Assurance	MS	Embry Riddle Aeronautical University	12/8/17	Y
Leadership	MS	Embry Riddle Aeronautical University	12/8/17	Y
Logistics and Supply Chain Management	MS	Embry Riddle Aeronautical University	12/8/17	Y
Management	MS	Embry Riddle Aeronautical University	12/8/17	Y
Management Information Systems	MS	Embry Riddle Aeronautical University	12/8/17	Y
Occupational Safety Management	MS	Embry Riddle Aeronautical University	12/8/17	N
Project Management	MS	Embry Riddle Aeronautical University	12/8/17	Y
Unmanned Systems	MS	Embry Riddle Aeronautical University	12/8/17	Y
Engineering	MS	Embry Riddle Aeronautical University	12/8/17	Y

Conditionally Approved Certificates - OOS

Program Title	Degree Level	Institution	Action Date	Offered Elsewhere in Maryland
Acquisition and Contract Management	PBC	Florida Institute of Technology	11/27/17	Y
Flight Test Engineering	PBC	Florida Institute of Technology	11/27/17	N
Aviation Maintenance Technology Part 65	LDC	Embry Riddle Aeronautical University	12/8/17	N
Aviation Safety	LDC	Embry Riddle Aeronautical University	12/8/17	N
Supply Chain Management	LDC	Embry Riddle Aeronautical University	12/8/17	Y
Logistics	LDC	Embry Riddle Aeronautical University	12/8/17	Y
Occupational Safety and Health	LDC	Embry Riddle Aeronautical University	12/8/17	N
Pre-Engineering Studies	LDC	Embry Riddle Aeronautical University	12/8/17	N
Aviation/Aerospace Safety	LDC	Embry Riddle Aeronautical University	12/8/17	N
Information Assurance (National Security Agency)	LDC	Embry Riddle Aeronautical University	12/8/17	Y

Summary of Newly Authorized Out-of-State Institution Programs by Discipline Type

Discipline	Associate Degrees	Bachelor's Degrees	Master's Degrees	Doctorate / Professional Degrees	Certificates / Endorsements
Allied Health/Health-related		6	2		1
Aviation	4	4	2		4
Business/Management/Finance/ Economics		2	9		5
Communication/Media/Marketing			1		
Computer Information Systems Security/Information Assurance			5		1
Counseling/Psychology					
Criminal Justice		1			
Cybersecurity					
Education		2	3		
Engineering/Engineering Technology		1	5		2
Exercise Science					
Fine Arts					
Humanities/Liberal Arts	2				
Industry/Labor	1	1	1		
Interdisciplinary Studies	1				
Library Science					
Math					
Mechatronics, Robotics, and Automation Engineering			1		
Occupational Safety and Health Technology		1	1		1
Organizational Leadership			2		1
Public Affairs, Public Administration			4		3
Religious Studies	1		2		
Restaurant Culinary, and Catering Management/Manager	3	3	1		1
Science (Physical/Biological)					
Social Work/Social Science		1	1		
Transportation/Mobility Management		1			1
Total	**12**	**23**	**40**	**0**	**20**

MHEC Staff Analysis for Proliferation or Duplication

Of the 95 programs at out-of-state institutions that were authorized by MHEC to be offered in Maryland, including renewal programs, 55 (22 authorized and 33 conditionally authorized) were already being offered by at least one other in-state college or university. In the tables above, those programs are marked with a "Y" in the column titled "Offered Elsewhere in Maryland." In these cases, MHEC staff determined that such duplication was reasonable. The remaining 40 programs, marked with an "N" in the column titled "Offered Elsewhere in Maryland," were determined to be unique programs that were not currently being offered at any other in-state college or university.

As mentioned in Section I of this report, the Collegiate Unit in MHEC's Division of Academic Affairs conducts reviews of program proposals submitted by both in-state and out-of-state colleges and universities. The process includes distribution of the proposal to all in-state institutions for review and comment. Both in-state and out-of-state program proposal reviews are governed by COMAR 13B.02.03.06 and use the following criteria in determining approval or denial:

- Centrality to institutional mission statement and planning priorities
- Critical and compelling regional or Statewide need as identified in the State Plan
- Quantifiable and reliable evidence and documentation of market supply and demand in the region and service area
- Reasonableness of program duplication, if any
- Relevance to the implementation or maintenance of high-demand programs at HBIs
- Relevance to the support of the uniqueness and institutional identities and missions of HBIs
- Adequacy of curriculum design and delivery to related learning outcomes
- Adequacy of faculty resources
- Adequacy of library resources
- Adequacy of physical facilities, infrastructure, and instructional equipment
- Adequacy of financial resources
- Adequacy of provisions for evaluation of program
- Consistency with the Commission's minority student achievement goals
- Relationship to low productivity programs identified by the Commission[2]

Further, out-of-state program proposal reviews are governed by COMAR 13B.02.01, drawing upon the aforementioned criteria as well as the criteria below to determine if a program could be considered unreasonably duplicative:

- Degree to be awarded
- Area of specialization
- Purpose or objective of the program or course of study to be offered
- Specific academic content of the program or course of study
- Quality of the proposed program in comparison to existing programs

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[2] This consideration applies only to enrollment trends at in-state institutions.

- An analysis of the market for the program
- State's equal educational opportunity obligations under State and federal law
- Critical and compelling regional or Statewide need
- Consistency with the Maryland State Plan for Postsecondary Education
- Demand and need for a program, in terms of meeting present and future needs of the region and the State in general. Two kinds of need may be identified:
  - Societal needs, including the tradition of liberal arts education, which provides immeasurable returns to the State in part by instilling in citizens a capacity for advanced learning and individual and societal benefits regardless of workforce or market demand considerations; and
  - Occupational needs relative to meeting workforce requirements or upgrading vocational or technical skills.
- Market demand data and job market openings to be served by the new program
- Recently collected, existing, or new market surveys that clearly provide quantifiable and reliable data from prospective employers on educational and training needs, and the anticipated number of vacancies expected over the next five years (with the exception of programs in the liberal arts)
- Data showing the current supply of graduates in that program area in the State and region

Out-of-state institutions must address all areas of COMAR 13B.02.01 in their application for a new academic program. When determining if proposed programs from out-of-state institutions are duplicative of similar programs offered by in-state institutions, MHEC staff members conduct a Classification of Instructional Program Standard Occupational Code (CIP-SOC) analysis in order to establish a crosswalk between academic programs and relevant occupations. Every program approved by MHEC receives a CIP code to facilitate both state and federal reporting. CIP and SOC are databases managed by the U.S. Department of Education and Bureau of Labor Statistics, respectively. Further, data from the Maryland Department of Labor, Licensing, and Regulation (DLLR) are used to determine regional and statewide occupational demand projections, and MHEC's Enrollment Trends (E-Trends) and Degree Trends (D-Trends) databases are reviewed to analyze the student and graduate supply pipelines for a given academic program. In some cases, supplemental data from trade journals or other publications may be used as well. MHEC staff may recommend that the Secretary of Higher Education authorize an out-of-state program even if it is duplicative of existing programs in the State, if data from the sources referenced above indicate that the State's supply of college and university graduates in that field does not meet the projected occupational demand.

SECTION VI
PROGRAM PROPOSALS NOT APPROVED OR RECOMMENDED FOR IMPLEMENTATION BY MHEC

In 2017, a total of 1 academic program proposal was not approved by MHEC. This was a University System of Maryland institution. In this case, a lack of market need and unnecessary duplication were primary factors in the decision. Market need involves an analysis of the current supply graduates from in-state postsecondary institutions and projected occupational demand for in associated job classifications. Sufficient evidence was not presented to allow for the dual operation of this program, and it was deemed duplicative.

Institution	Program Title	Degree	Reason	Action Date
Towson University	Management and Leadership Studies	MS	Unjustified market need and unnecessary duplication	11/21/17

APPENDIX

Closed Site / Off-Campus Programs (In-State)

Institution	Degree Level	Program Title	Partner	Action Date
Towson University	MEd	Special Education	Howard County Public Schools at Centennial High School	3/27/2017
Towson University	MEd	Reading Education	Howard County Public Schools at Centennial High School	3/27/2017
Towson University	PBC	Autism Studies	via WebEX - Baltimore County Public School	3/30/17
Anne Arundel Community College	LDC	Business Management	Jessup Correctional Institution	4/24/17
Anne Arundel Community College	LDC	Entrepreneurship	Jessup Correctional Institution	4/24/17
Towson University	PBC	Autism Studies	St. Mary's County Public School System at Southern Maryland Higher Education	7/10/17
Towson University	CAS	Organizational Change	St. Mary's County Public School System at Southern Maryland Higher Education	7/10/17
Towson University	MS	Human Resource Development Leadership Education	St. Mary's County Public School System at Southern Maryland Higher Education	7/10/17
Towson University	MEd	Reading Education	St. Mary's County Public School System at Southern Maryland Higher Education	7/10/17
Towson University	PBC	Autism Studies	Calvert County Public School System at Southern Maryland Higher Education	7/10/17
Towson University	PBC	Organizational Change	Calvert County Public School System at Southern Maryland Higher Education	7/10/17
Towson University	MS	Human Resource Development Leadership Education	Calvert County Public School System at Southern Maryland Higher Education	7/10/17
Towson University	MEd	Reading Education	Calvert County Public School System at Southern Maryland Higher Education	7/10/17
Towson University	PBC	Autism Studies	Charles County Public School System at Southern Maryland Higher Education	7/10/17
Towson University	CAS	Organizational Change	Charles County Public School System at Southern Maryland Higher Education	7/10/17
Towson University	MEd	Reading Education	Charles County Public School System at Southern Maryland Higher Education	7/10/17

Institution	Degree Level	Program Title	Partner	Action Date
Towson University	MS	Human Resource Development Leadership Education	Charles County Public School System at Southern Maryland Higher Education	7/10/17
Towson University	MEd	Reading Education	Baltimore County Public School System at Southern Maryland Higher Education	7/13/17
Towson University	Admin I Cert.	Special Education	The Center for Innovation and Leadership (CILSEKKI), at Kennedy Krieger Education and Community Services, Inc.	7/13/17
Towson University	MEd	Instructional Technology	Harford County Public School System at Towson University Northeast	9/28/17
Towson University	MEd	Instructional Technology	Cecil County Public School System at Towson University Northeast	9/28/17
Towson University	MEd	Special Education	Montgomery County Public School Teachers at The Universities at Shady Grove	9/28/17
UMUC	PBC	Distance Ed & E-Learning	University of South Africa	10/20/17
Towson University	MS	Instructional Technology: School Library Media	Baltimore County Schools System at Parkville High School	11/30/17
Towson University	MS	School - Instructional Technology: Educational Technology	Baltimore County Schools System at Parkville High School	11/30/17
Towson University	MS	Human Resource Development: Educational Leadership Track	Baltimore County Schools System at Parkville Middle School	11/30/17
Towson University	MEd	Reading Education	Baltimore County Schools System at Parkville Middle School	11/30/17
Towson University	Admin I Cert	Administrator I Certification Courses w/in Organizational Change Certificate	Baltimore County Schools System at Parkville Middle School	11/30/17
Towson University	MEd	Special Education: Teacher as Leader in Autism Spectrum Disorder Concentration	Baltimore County Schools System at Ridgely Middle School	11/30/17
Towson University	MEd	Special Education: Special Education Initial Certification	Baltimore County Schools System at Ridgely Middle School	11/30/17
Towson University	MAT	Special Education	Baltimore County Schools System at Ridgely Middle School	11/30/17

Partnership (Out-of-State)

Institution	Degree Level	Program Title	Partner	Action Date
Georgetown University	EML	Executive Master's in Leadership for D.C. Public School Leaders	Host a one-week residency required for EML to be held at the William F. Bolger Center, 9600 Newbridge Dr., Potomac, MD	12/20/17

Suspended / Discontinued (In-State)

Institution	Degree Level	Program Title	Action Date
Anne Arundel Community College	LDC	Pharmacy Tech Program	11/30/17
Anne Arundel Community College	LDC	Patient Care Tech/Geriatric Nursing Assistant Certificate	11/30/17
Allegany College of Maryland	AAS	Office Technologies	3/2/17
Cecil College	AA	Teacher Education Transfer – Elementary Education Option	3/1/17
Cecil College	LDC	Government Contracting Statewide	2/16/17
Cecil College	LDC	Transportation & Logistics – Government Logistics State	2/16/17
Cecil College	LDC	Visual Communications – Graphic Design	2/16/17
Cecil College	LDC	Oracle Certified Professional	12/6/17
Cecil College	LDC	Oracle Certified Associate	12/6/17
Community College of Baltimore County	AAS	Mental Health	6/29/17
Community College of Baltimore County	LDC	Mental Health	6/29/17
Community College of Baltimore County	LDC	Psychiatric Rehabilitation	6/29/17
Community College of Baltimore County	LDC	CAD Management	7/11/17
Community College of Baltimore County	LDC	CAD Mechanical Modeling	7/11/17
Community College of Baltimore County	LDC	Civil Design	7/18/17
Frederick Community College	LDC	Construction Technology Academy	7/12/17
College of Southern Maryland	LDC	Drafting	7/18/17

Suspended / Discontinued (Out-of-State)

Institution	Degree Level	Program Title	Action Date
Central Michigan: Fort George G. Meade	MS	Administration – Software Engineering	6/30/17
Central Michigan: Fort George G. Meade	PBC	Software Engineering	6/30/17

Proposals Withdrawn (In-State)

Institution	Degree Level	Program Title	Action Date
Montgomery College	AS	General Engineering at Northwest High School	2/15/17
Montgomery College	AA	Associate of Art in General Studies at Northwest High School	2/15/17
University of Maryland College Park	MS	Environmental Health Sciences	5/11/17
Notre Dame of Maryland University	MA	Art Therapy *(withdrawn and resubmitted)*	8/1/17
Notre Dame of Maryland University	BA	Art Therapy *(withdrawn and resubmitted)*	8/1/17
University of Maryland, University College	MS	Transformational Leadership	11/8/16

Proposals Withdrawn (Out-of-State)

Institution	Degree Level	Program Title	Action Date
Central Michigan University *(resubmitted)*	MS	Administration with 6 areas of concentration:	1/10/17
Aberdeen Proving Ground		General Administration	
		Health Services Administration	
		Human Resources Administration	
		Information Resource Management	
		Public Administration	
		Leadership	
	PBC	Project Management	
	PBC	Training and Development	
Andrews Air Force Base	MS	Administration with 9 areas of concentration	
		General Administration	
		Health Services Administration	
		Human Resources Administration	
		Information Resource Management	
		International Administration	
		Leadership	
		Public Administration	
		Project Management	
		Training and Development	
Fort George G. Meade	MS	Administration with 4 areas of concentration	
		General Administration	
		Information Resource Management	
		Public Administration	
		Software Engineering Administration	
	PBC	Cybersecurity	

Institution	Degree Level	Program Title	Action Date
Drexel University	DNP	Doctor of Nursing Practice	1/24/17
	MSN	Master of Science in Nursing - Nurse Practitioner with 4 areas of concentration	
		Adult-Gerontology Acute Care Nurse Practitioner	
		Psychiatric Mental Health Nurse Practitioner	
		Women's Health / Gender Related Nurse Practitioner	
		Pediatric Primary Care Nurse Practitioner	
	MSN	Nursing - Advanced Practice with 4 areas of concentration	
		Clinical Nurse Leader	
		Clinical Trials Research	
		Leadership in Health Systems Management	
		Nursing Education and Faculty Role	
	PMC	Nursing with 6 areas of concentration	
		Nursing Education and Faculty Role	
		Adult-Gerontology Acute Care Nurse Practitioner	
		Psychiatric Mental Health Nurse Practitioner	
		Pediatric Primary Care Nurse Practitioner	
		Women's Health / Gender Related Nurse Practitioner	
		Pediatric Primary Care Nurse Practitioner	
	MS	Sport Management	
	MS	Arts Administration	
	BS	Teacher Education	
	PMC	School Principal	
	PBC	Elementary Education: Special Education	
	PBC	Secondary Education: Special Education	
	MSN	Pediatric Primary Care and Pediatric Acute Care Dual Option Nurse Practitioner	
	PMC	Pediatric Primary Care and Pediatric Acute Care Dual Option Nurse Practitioner	
	MSN	Pediatric Acute Care Nurse Practitioner	
	PMC	Pediatric Acute Care Nurse Practitioner	
	MSN	Family / Individual Across the Life Span Nurse Practitioner	
	PMC	Family / Individual Across the Life Span Nurse Practitioner	
	MSN	Adult Gerontology Primary Care Nurse Practitioner	
	PMC	Adult Gerontology Primary Care Nurse Practitioner	
	PMC	Clinical Nurse Leader Post Master Certificate	
	PMC	Nursing (Online - Post licensure RN-BSN Completion Programs)	
	BS	Elementary Education	
	MS	Teaching, Learning & Curriculum	

Institution	Degree Level	Program Title	Action Date
Cabrini College	BS	Leadership with minor in Environmental Studies	5/9/17

Institution	Degree Level	Program Title	Action Date
Standard Healthcare College of Nursing (*resubmitted*)	AAS	Nursing (L.P.N. to R.N. Transition)	5/10/17

Institution	Degree Level	Program Title	Action Date
La Salle University	MEd	Education	5/11/17

Institution	Degree Level	Program Title	Action Date
Philadelphia University	MSW	Master of Science in Midwifery	5/17/17
	MSW	Master of Science in Midwifery - Completion for Certified Midwives	
	PMC	Post Master Certificate in Midwifery	
	MS	Master of Science in Disaster Medicine and Management	

Institution	Degree Level	Program Title	Action Date
Wilmington University	BS	Middle Level Education	10/31/17