

**ARTICULATION AGREEMENT
BETWEEN
UNIVERSITY OF MARYLAND EASTERN SHORE
AND NORTHERN VIRGINIA COMMUNITY COLLEGE (NOVA)**

**Bachelor of Science Degree
In
Construction Management Technology**

1. PURPOSE:

This Articulation Agreement is the result of discussions and meetings between the University of Maryland Eastern Shore (UMES) and Northern Virginia Community College (NOVA).

The purpose of this Agreement is:

- to clarify and outline the responsibilities of each institution,
- to develop an academically sound joint agreement, and
- to create a collaborative agreement which will lead to an efficient use of each institution's resources.

2. GOALS:

The primary goal of this agreement is to offer graduates of NOVA's Construction Management Technology Associate of Applied Science (AAS) the opportunity to pursue the third and fourth years of the Bachelor of Science Degree in Construction Management Technology (CMT) from the University of Maryland Eastern Shore at the Universities at Shady Grove (USG). A secondary goal is to facilitate transfer of students currently enrolled in NOVA's Construction Management courses. This effort will be accomplished through a combination of on-campus and distance education course offerings. The parties to this collaboration will offer the appropriate combination of courses to ensure that a student can complete the requirements for the CMT degree from UMES within a specified period of time.

3. LOCATION:

This program will be based at the Universities at Shady Grove and will be coordinated by the Department of Technology at UMES.

4. COLLABORATIVE COURSES/PROGRAMS:

Through a combination of course offerings, NOVA students will be able to take courses to meet the requirements for the Bachelor of Science Degree in CMT from UMES and the Universities at Shady Grove. Each institution will be responsible for and in compliance with its specific components of the following course offerings as agreed between them:

NOVA: All courses required in the A.A.S. degree in Construction Management Technology.

UMES: All courses required to complete the Bachelor of Science degree in Construction Management Technology (CMT). Any additional courses already offered at NOVA, which are part of the UMES degree, will be evaluated and, if appropriate, will be accepted as courses towards the UMES bachelor's degree. The UMES Office of the Registrar is the repository for academic records and as such has the final responsibility for academic compliance for The Code of Maryland Regulations (COMAR). All external academic record audits are visited upon this Office and any discrepancy or infraction for non-compliance is bought to bear upon the UMES Office of the Registrar and UMES. Therefore, the UMES Office of the Registrar is the final authority for transfer analysis and credit acceptance. See attached Plan of Study.

5. MARKETING:

UMES will take the initiative in major marketing efforts such as advertising, direct mailings, and industry networks. The Universities at Shady Grove and NOVA agrees to take a supportive role in all marketing efforts such as providing students with information on the CMT program, allowing UMES staff access to students' organizations and other student functions.

6. ADVISING:

UMES will agree to provide academic advising services for UMES/NOVA students participating in the program. NOVA and USG will provide office space for these sessions and assist UMES with general education advising, if needed.

7. ADMISSION AND REGISTRATION:

In order to participate in this program, students must apply and be admitted to UMES. Students are subject to all applicable UMES admission, registration, and graduation requirements including all applicable deadlines. UMES retains sole

authority and discretion in determining whether a student is admitted to the program and whether a student has completed the requirements for graduation and a degree from UMES. Only students registered as UMES students will be allowed to take UMES courses. Students may be co-enrolled at UMES and NOVA while completing the remaining courses.

Co-enrollment and registration will be conducted in accordance with the policies established by the University or Community College in which the student is enrolled. UMES will conduct in-person registration assistance periodically and at mutually agreed times. Both institutions, UMES/NOVA, agree that any and all personalized student information arising out of or relating to this Articulation Agreement is confidential and subject to disclosure only as provided by FERPA. Each party warrants that it is in compliance with all applicable federal, state and local laws and to provide cooperation to the other party for audit and accreditation purposes. Specific rules, policies, and procedures apply to students for purposes of grade appeals and/or academic misconduct based on the institution in which the student is enrolled.

8. TUITION AND FEES:

Students involved in this collaboration will be responsible for tuition and fees in accordance with the policies established by the institution in which they are enrolled. A co-enrolled student will register at each institution, NOVA and UMES, and be subject to each institution's applicable admissions, registration, tuition and fees. UMES is offering in-state fees to NOVA students regardless of their state of residency.

9. COURSE OWNERSHIP:

Ownership of courses, content and instructor selection belongs to the institution providing the course. The institution owning the course will notify the other institution of substantive changes in course content.

10. STUDENT SUPPORT SERVICES:

USG and NOVA will provide UMES students participating in the CMT program access to student support services. These services shall include, but are not limited to, access to the library, bookstore services, and access to general facilities such as cafeteria and student lounges during normal operating hours. Additional services, such as parking and access to special events, will follow the guidelines and policies established by NOVA. UMES will provide NOVA students enrolled in the Construction Management Technology program access to similar services as they become available and as this collaboration grow.

11. FACILITIES:

UMES will provide all the necessary classrooms and lab facilities for the program at USG, located in Rockville, MD. Library, parking and other appropriate facilities will also be provided at USG.

12. COURSE ARTICULATION:

The articulation/transfer agreement between NOVA and UMES will govern transfer of courses from NOVA to UMES. The agreement will be designed to allow as many credits as possible from the A.A.S. degree (not to exceed 70 credits) to be transferred into the UMES degree. The parties intend, in good faith, to negotiate and execute in writing a separate Plan of Study which will govern transfer of courses from NOVA to UMES.

12. a STUDENTS WITH ADVANCEMENT IN MATHEMATICS:

The Construction Management Technology program at the University of Maryland Eastern Shore requires 8 credits in Mathematics (Math 111, Pre-Calculus and Math 112, Calculus). Students from NOVA who are Transferring to UMES with satisfactory requirement for Calculus I (MTH 173 at NOVA) but have not completed MTH 166 (Pre-Calculus at NOVA) are to register in the Independent Study for Math 111 at UMES and complete the credit by exam for this course with a grade of "B" or better to satisfy the math requirements at UMES. UMES will also accept MTH 163 (3 credits) plus MTH 299 (2 credits) from NOVA for MATH 111 (4 credit)at UMES.

13. UNIVERSITY OF MARYLAND EASTERN SHORE COURSES:

Students who enroll in the UMES program on the Shady Grove Campus will not have access to the full range of UMES courses that they would have if they attended the Princess Anne Campus. In order to facilitate students' completion of the B.S. degree, selected general education and business courses will be offered through other University of Maryland institutions and the Universities at Shady Grove.

14. FINANCIAL AID:

UMES students taking a combination of courses at NOVA and UMES that equal a full load, 12 credits, will be considered by UMES as full-time students for financial aid purposes. UMES students seeking financial aid and taking courses at NOVA on a full or part-time basis must complete NOVA's financial aid consortium agreement, which will enable students, if eligible, to receive financial aid for courses taken at both schools

during their joint enrollment period. UMES courses must fill program requirements at NOVA

15. DESIGNATED REPRESENTATIVES:

The following are the designated representatives for each institution for purposes of implementing this agreement and for any notices required to be given under this agreement.

For the University of Maryland Eastern Shore: Dr. Derek Dunn, Chair, Department of Technology, (410) 651-6465 and/or Bijan Shapoorian, CMT Program Director at the Shady Grove campus (301) 738-6214

For Northern Virginia Community College: Julia Brown, Coordinator for Transfer Policy, Academic Services, 703-323-3170.

16. MODIFICATION/TERMINATION:

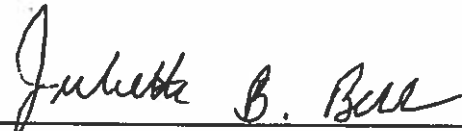
Modification of this agreement must be made between the institutions in writing and signed by both parties. Either party may terminate this agreement upon 180 days written notice to the President of the other institution. However, each party agrees to immediate termination of this agreement in the event of lack of appropriations or lack of funding. In the event of termination, each party agrees, to the extent reasonably and financially practical, to continue the program until each admitted student has: a) the opportunity to complete the desired degree, b) had the opportunity to complete the degree with substituted courses of a similar course content, or c) chosen to complete an equivalent degree at another institution. Parties agree to maintain an open and cooperative dialogue to explore new, innovative, and mutually beneficial programs and services.

The initial term of this agreement will begin during the 2014-15 academic year. Both UMES and NOVA also agree to re-examine this agreement on an annual basis to determine if it continues to be mutually beneficial. The parties acknowledge and affirm that they do not intend this agreement and any subsequent agreement negotiated by and between the parties for the benefit of any third parties, including but not limited to students, faculty, and staff of the respective parties. This constitutes the entire agreement of the parties.


Articulation Agreement

We, the undersigned, agree to the articulation of courses and requirements for the Bachelor of Science degree in Construction Management Technology offered by the University of Maryland Eastern Shore, as indicated on the attached.

This agreement represents our understanding that students who adhere to the requirements will have the ability to transfer from the Associate of Applied Science Construction Management Technology degree offered at Northern Virginia Community College to the Bachelor of Science degree in Construction Management Technology offered by the University of Maryland Eastern Shore at the Universities at Shady Grove.



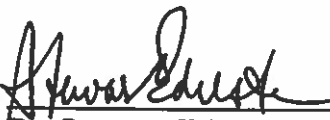
Dr. Juliette B. Bell Date 7/2/14
President
University of Maryland Eastern Shore



Dr. Robert G. Templin, Jr. Date 8/19/14
President
Northern Virginia Community College



Dr. Theresa Hollander Date 9/24/14
Associate Vice Chancellor



Dr. Stewart Edelstein Date 9/29/14
Executive Director
Universities at Shady Grove

Exhibit 1
Suggested Transfer Pathway
CONSTRUCTION MANAGEMENT A.A.S. at
NORTHERN VIRGINIA COMMUNITY COLLEGE to
CONSTRUCTION MANAGEMENT TECHNOLOGY B.S. at
THE UNIVERSITY OF MARYLAND EASTERN SHORE (UMES)

FALL YEAR 1 AT NOVA	Credits	SPRING YEAR 1 AT NOVA	Credits
ARC 134 Methods and Materials	3	ECO 201 Economics I (Macro) *	3
CAD 201 Computer Aided Drafting I	3	SOC 201 Sociology	3
BLD 101 Construction Management I	3	CST 110 Intro. to Communication	3
ENG 111 College Composition I	3	ENG 112 College Composition II *	3
MTH 166 or (MTH 163 + MTH 299)	5	HIS 101 History of Western Civilization	3
		BLD 165 Construction Field Operation	2
Total	17	Total	17

FALL YEAR 2 AT NOVA	Credits	SPRING YEAR 2 AT NOVA	Credits
CIV 171/172 Surveying	3	BLD 247 Construction Planning	3
ARC 243 or (AIR 213+AIR 252)/HVAC	3	ENG 251 Survey of World Lit *	3
BLD 231 Estimating I	3	MTH 173 Calculus I *	5
PHY 201 General Physics I *	4	SDV 100	1
CAD 165 Arch Blue Print Reading	3	PHY 202 General Physics II *	4
		ARC 225 Site Planning	3
Total	16	Total	19

69 credits from the A.A.S. in Construction Management at NOVA are transferred as 67 credits toward the B.S. in Construction Management Technology at UMES (5 credit Math courses transfer as 4 credits each). Students can also take ACCT 201 (Not required for AAS degree) at NOVA and transfer total allowable of 70 credits to UMES.

FALL YEAR 3 AT UMES	Credits	SPRING YEAR 3 AT UMES	Credits
CMTE 316 Environmental Technology II	3	CMTE 445 Construction Estimating II	3
CMTE 313 Statics	3	CMTE 317 Soil Mechanics	3
ENGL 305 Tech Writing	3	CMTE 325 Construction Methods & Equipment	3
ENGL 002 English Proficiency	0	BUAD 200 Business Ethics Online at UMES	3
HMG 305 Business Entrepreneurship	3	CMTE 314 Strength of Materials	4
Total	12	Total	16

SUMMER COURSES (CMTE 395 at UMES and ACCT 201 at NOVA (Acc 211)) 5 credits

FALL YEAR 4 AT UMES	Credits	SPRING YEAR 4 AT UMES	Credits
CMTE 413 Structural design I	3	CMTE 350 Green Building	3
CMTE 425 Construction Mgmt I	3	CMTE 414 Structural Design II	3
ECON 202 Economics II (Micro)	3	BUAD 304 Small Business Management Entrp.	3
CMTE 454 Site Development	3	CMTE 426 Construction Management II	3
		CMTE 458 Senior Seminar	2
Total	12	Total	14
Total of 126 credit hours in four years.			

**UNIVERSITY OF MARYLAND EASTERN SHORE (UMES)/
NORTHERN VIRGINIA COMMUNITY COLLEGE (NOVA)
CONSTRUCTION MANAGEMENT TECHNOLOGY/
CONSTRUCTION MANAGEMENT TECHNOLOGY PROGRAM
PROPOSED CURRICULUM ARTICULATION: FRESHMAN AND SOPHOMORE YEARS**

Courses completed at NOVA – A.A.S. Credits		Use at UMES to satisfy requirements for: Credits	
General Education Courses		General Education Courses	
<u>Curriculum Area I (Arts and Humanities)</u>			
HIS 101 History of Western Civ.	3	Arts and Humanities, Curriculum Area IA	3
CST 110 Intro to Communication	3	ENGL 203 Fundmnt. of Contemp. Speech	3
ENG 251 Survey of World Lit	3	Arts and Humanities, Curriculum Area I B ENGL 204 Intro to Fiction	3
<u>Curriculum Area II (Social & Behav Science)</u>			
ECO 201 Principles of Macro Econ	3	ECON 201 Principles of Economics I	3
SOC 201 Intro to Sociology	3	SOC 201 Intro to Sociology	3
<u>Curriculum Area III (Physical Sciences)</u>			
PHY 201 General College Physics I/Lab	4	PHY 121/123 General College Physics I	4
PHY 202 General College Physics II/Lab	4	PHY 122/124 General College Physics II	4
<u>Curriculum Area IV (Mathematics)</u>			
MTH 166 or (MTH 163 + MTH 299)	5	MATH 111 Elementary Math Analysis	4
MTH 173 Calculus I	5	MATH 112 Calculus I	4
<u>Curriculum Area V (English Composition)</u>			
ENG 111 College Composition I	3	ENGL 101 Basic Composition I	3
ENG 112 College Composition II	3	ENGL 102 Basic Composition II	3
ENG 115 Tech Writing	3	ENGL 305 Tech Writing	3
<u>Curriculum Area VI (Emerging Issues)</u>			
SDV 100 Student Development	<u>1</u>	EDTE 100 FYE	<u>1</u>
Total	43		41

REQUIRED PROGRAM CORE COURSES

<u>NOVA</u>	<u>Credits</u>	<u>UMES</u>	<u>Credits</u>
DRF 165 Arch Blue Print Reading	3	CMTE 201 Architectural Drawing	3
DRF 201 CAD & Design	3	EDTE 131 CAD Drawing & Design I	3
BLD 101 Construction Management-I	3	CMTE 205 Computer App. in Constr.	3
CIV 171 Surveying	3	CMTE 214 Construction Surveying	3
ARC 134 Methods and Materials	3	CMTE 230 Construction Materials	3
BLD 247 Construction Planning	3	CMTE 286 Planning & Scheduling	3
BLD 165 Construction Field Operation	2	CMTE 295 CM Internship	2
ARC 243 Environmental I; (Systems)	3	CMTE 315 Environmental Technology I	3
BLD 231 Construction Estimating I	<u>3</u>	CMTE 342 Construction Estimating I	<u>3</u>
	26		26

Also for Area III- Supportive Courses:

ACC 211 Principles of Accounting I	3	ACCT 201 Intro to Financial Acct.	3
ARC 225 Site Planning	3	ENVS 101 Environmental Sciences	3

Students are advised to complete as many of these courses as possible before enrolling at UMES. Equivalent general education courses may also be taken at the Shady Grove campus or other USM institutions.

NOTE: STUDENTS MAY NOT TRANSFER MORE THAN 70 CREDITS FROM TWO-YEAR COMMUNITY COLLEGES.