



## ARTICULATION AGREEMENT

Between

SUFFOLK COUNTY COMMUNITY COLLEGE

and

VAUGHN COLLEGE OF AERONAUTICS AND TECHNOLOGY

### Section One: Objectives of the Agreement

The purpose of this agreement between Suffolk County Community College and Vaughn College of Aeronautics and Technology is:

- \* to promote easy and efficient transfer of Associate Degree graduates from Suffolk County Community College to Vaughn College;
- \* to provide information about junior and senior year requirements to students and advisors at Suffolk County Community College;
- \* to attract qualified students to Suffolk County Community College and Vaughn College;
- \* to facilitate communication between chairpersons, program directors, and Deans at Suffolk County Community College and their counterparts at Vaughn College.

### Section Two: Transfer Agreement

This agreement stipulates:

- 1) Associate's Degree graduates of Suffolk County Community College, who satisfy the minimum GPA requirements (C or better) will be admitted into the specified programs at Vaughn College, and will be deemed to have satisfied Vaughn College's core and proficiency requirements as specified in the attached templates.
- 2) Courses transferred will receive full credit awarded by Vaughn College as shown in the accompanying tables.
- 3) Associate's Degree graduates admitted under this agreement into Vaughn College will normally be able to complete the requirements for a Bachelor's Degree in four semesters of full-time work if the suggested course sequence is followed.
- 4) Upon transferring to Vaughn College, qualified Suffolk County Community College graduates will be awarded credits as specified in the following tables, subject to Vaughn College's specific program and/or institutional requirements. Vaughn commits to dedicating specific scholarships to Suffolk County Community College to those students accepted through this articulation agreement. Vaughn will provide a minimum of \$3000/yr. scholarship to Suffolk County Community College students accepted through this articulation agreement who have achieved a 3.0 average or better. Vaughn will offer additional funds to those students who demonstrate high academic achievement.

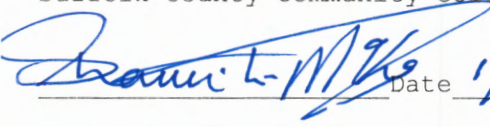
5) Associate's Degree graduates transferring into the BS programs at Vaughn College will, whenever possible, be provided with a projected junior and senior year schedule listing specific major requirements and upper-level general education requirements to be completed.

6) The Department Chair at Vaughn College and respective staff at Suffolk County Community College will review the articulation on a regular basis to evaluate, update, and expand it as needed. This agreement shall remain in effect unless either party requests in writing that it be rescinded or amended. Chairpersons, program directors and/or appropriate Deans at Suffolk County Community College and at Vaughn College will be responsible for notifying their counterparts of any program changes that might affect the transfer process.

7) Suffolk County Community College and Vaughn College will disseminate information about the articulation agreement and include information about the agreement in appropriate college publications. Vaughn College will provide transfer counselors and advisors to Suffolk County Community College with information concerning transfer opportunities for students wishing to attend Vaughn. Suffolk CCC will also provide course outlines and student samples as needed for Vaughn college Engineering accreditation. The following Vaughn Programs are represented in this agreement: BS General Electronics, BS Mechatronics and BS Mechanical Engineering.

Dr. Shaun L. McKay, EdD  
President

Suffolk County Community College

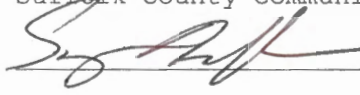
 Date 1/24/17

Dr. Sharon B. DeVivo  
President  
Vaughn College of Aeronautics &  
Technology

 Date 12/15/16

Dr. Suzanne Johnson, PhD  
Vice President for Academic Affairs

Suffolk County Community College

 Date 1/10/17

Dr. Paul LaVergne  
VP for Academic Affairs  
Vaughn College of Aeronautics &  
Technology

 Date 12/14/16

Dr. Hossein Rahemi  
Chair, Engineering & Technology  
Department  
Vaughn College of Aeronautics &  
Technology

 Date DEC-14-2016

## BS General Electronics

### Suffolk County

AAS Electrical Technology  
Course Number and Title

#### Major Courses

ELT 112 Electricity I  
ELT 224 Electricity II  
ELT 222 Electronics I  
ELT 227 Electrical Construction  
ELT 113 Digital Electronics 1  
ELT 228 Digital Elec 2  
ELT 238 Digital Elec 3

ELT 241 Analogue Communication  
ELT 151 Computer Networking

#### Math and Science

PHY 101 College Physics 1  
MAT 124 & 125 Pre-calculus  
Calculus 1\*\*

#### English and Social Sciences

ENG 101 Standard Freshman Composition  
English Elective  
COM 101 Intro to Human Communication  
SS Elective  
Technical Writing

### Vaughn College

BSET General Electronics  
Course Number and Title

EET-115 Electrical Circuits 1  
EET-116 Electrical Circuits 2  
EET-220 Electronic Circuits  
EET-210 Electronic Lab Practices  
EET-125 Digital Electronics  
EET-326 Microprocessors

EET-230 Principles of Communication  
Systems  
EET-445 Principals of Comm Networks  
FYE 101 Freshman Year Initiatives

PHY-120 Physics 1  
MAT115 Pre-calculus  
MAT-120 Calculus 1

ENG-110 English 1  
ENG-120 English 2  
Gen Ed L/A Elective  
HIS-141 Global Civilization  
ENG-240 Technical Writing  
Total Credits

### Credits

3  
3  
3  
2  
3  
3  
  
3  
3  
3  
  
4  
4  
4  
  
3  
3  
3  
3  
3  
3  
53

\*\* Additional Course to be taken at Suffolk or Vaughn College prior to the 5th semester

\*\*\*Additional Courses to be taken at Suffolk or Vaughn College prior to graduation

#### Suggested course sequence for Suffolk Students after transferring to Vaughn College

##### SEMESTER V

CDE 117 Eng Graphics with CAD	1	1	2
EET345 Computer Control of Instruments (Lab View Programming)	2	1	3
MAT220 Calc 2	3	0	3
AVT240 Aircraft Pulse Circuits	2	1	3
EET355 Advanced Microprocessors	3	0	3
PHY220 College Physics 2	3	1	4
CD101 Career Development Seminar	0	0	0
<b>Semester total</b>	<b>14</b>	<b>4</b>	<b>18</b>

##### SEMESTER VI

CDE385 CATIA Fundamentals	1	1	2
EET350 Control Systems	2	1	3
MAT445 Differential Equations	3	0	3
EGR460 Engineering Economics	3	0	3
EGR235 Mat. Science & Composites	3	0	3
PHY335 Physics 3	3	0	3
<b>Semester total</b>	<b>15</b>	<b>2</b>	<b>17</b>

##### SEMESTER VII

HUM472 Practical Ethics	3	0	3
ENG220 American Literature	3	0	3
EGR380 Eng Project Management	3	0	3
POL254 American Government	3	0	3
CDE386 CATIA for wiring and harnessing	2	1	3
Science Elective	3	0	3
<b>Semester total</b>	<b>18</b>	<b>0</b>	<b>18</b>

##### SEMESTER VIII

ENG290 Public Speaking	3	0	3
EET475 Reliability and Maintainability	3	0	3
ENG 210 World Literature	3	0	3
EET409 Internship/Project	3	0	3
MAT 410 Linear Algebra	3	0	3
Technical Elective	3	0	3
<b>Semester total</b>	<b>18</b>	<b>0</b>	<b>18</b>

## BS Mechatronics

### Suffolk Comm College

*AS Engineering Science*

*Course Number and Title*

**Major Courses**

DRF 114 AutoCad  
 ENS 118 Engineering Mechanics  
 ENS 119 Engineering Mechanics-Dynamics  
 CHE 133 College Chemistry 1  
 ENS 233 Electrical Circuit Analysis  
 ENS117: Engineering Computations

**Math and Science**

MAT 141 Calc with Analytic Geometry 1  
 PHY 130/132 Physics 1 + Lab  
 PHY 230/232 Physics 2 + Lab  
 PHY 245/246 Physics 3 + Lab  
 MAT 142 Calc with Analytic Geometry 2  
 MAT 203 Calc with Analytic Geometry 3  
 MAT 204 Differential Equations

**English and Social Sciences**

ENG 101 Freshmen Composition  
 ENG 102 Intro to Literature

*History Elective*

*Social Science Elective*

*American Lit\**

### Vaughn College

*BS Mechatronics*

*Course Number and Title*

CDE-117 Eng. Graphics CAD/Solid Edge  
 MEE-115 Engineering Mechanics 1  
 MEE-215 Engineering Mechanics 2  
 CHE-230 Chemistry  
 ELE-117 DC/AC Circuits  
 CSC 316 C++/Java Prog

MAT-125 Calculus 1 for Engineers  
 PHY-125 Engineering Physics 1  
 PHY-225 Engineering Physics 2  
 PHY 335 Modern Physics  
 MAT-225 Calculus 2 for Engineers  
 MAT 330 Calc 3  
 MAT325 Engineering Mathematics

ENG-110 English 1  
 ENG-120 English 2  
 POL-254 American Government  
 HIS-141 Global Civilization  
 ENG-220 American Literature  
 FYW 101 Freshman Year Initiative

### Credits

Total Credits 58

\* Additional Course to be taken at Suffolk or Vaughn College prior to graduation.

#### Suggested sequence for Suffolk students after transferring to Vaughn College

	SEMESTER V		SEMESTER VI
MCE101 Intro to Robotics	1	MEE 340 Computational Methods in Eng	3
ENG240 Technical Writing	3	ELE220 Electronic Circuits	3
MAT 410 Linear Algebra	3	MCE310 Fund of Mechatronic Engineering	2
MAT356 Probability and Statistics	3	MEE440 Heat Transfer	3
CDE385 Intro to CATIA 1	2	EGR380 Engineering Project Management	3
MEE210 Thermodynamics	3	MEE365 Ele of Machine design and Vibration Anal	3
MEE220 Strength of Materials 1	4	ENG 290 Public Speaking	3
CD 101 Career Development Seminar	0		
EGR230 Mech Testing and Eval Lab	1		
<b>Semester total</b>	<b>20</b>	<b>Semester total</b>	<b>20</b>
	SEMESTER VII		SEMESTER VIII
ELE230 Digital Systems Design	3	EGR375 Thermo Fluid Lab	1
MCE410 Mechatronics 1	2	ELE326 Microprocessors	3
ELE350 Control Systems 1	3	MCE420 Mechatronics 2	2
MEE 235 Mat Science and Failure Analysis	3	MEE355 Reliability Methods in Structural Analysis	3
MEE345 Fluid Mechanics	3	EGR460 Engineering Economics	3
Technical Elective	3	MEE 370 Finite Element Analysis	3
MCE 401 Pre Capstone Project	1	MCE409 Senior Project	3
<b>Semester total</b>	<b>18</b>	<b>Semester total</b>	<b>18</b>

# BS Mechanical Engineering

<b>Suffolk Comm College</b>	<b>Vaughn College</b>	<b>Credits</b>
<i>AS Engineering Science</i>		
<i>Course Number and Title</i>		
<b>Major Courses</b>		
DRF 114 AutoCad	CDE-117 Eng. Graphics CAD/Solid Edge	2
ENS 118 Engineering Mechanics	MEE-115 Engineering Mechanics 1	3
ENS 119 Engineering Mechanics-Dynamics	MEE215 Engineering Mechanics 2	3
ENS 233 Electrical Circuit Analysis	ELE-117 DC/AC Circuits	3
CHE 133 College Chemistry 1	CHE230 Chemistry	3
ENS117: Engineering Computations	CSC 316 C++/Java Prog	3
<b>Math and Science</b>		
MAT 141 Calc with Analytic Geometry 1	MAT-125 Calculus 1 for Engineers	3
PHY 130/132 Physics 1 + Lab	PHY-125 Engineering Physics 1	4
PHY 230/232 Physics 2 + Lab	PHY-225 Engineering Physics 2	4
PHY 245/246 Physics 3 + Lab	PHY 335 Modern Physics	3
MAT 142 Calc with Analytic Geometry 2	MAT-225 Calculus 2 for Engineers	3
MAT 203 Calc with Analytic Geometry 3	MAT-330 Calc 3	3
MAT 204 Differential Equations	MAT325 Engineering Mathematics	3
<b>English and Social Sciences</b>		
ENG 101 Freshmen Composition	ENG-110 English 1	3
ENG 102 Intro to Literature	ENG-120 English 2	3
<i>History Elective</i>	POL-254 American Government	3
<i>Social Science Elective</i>	HIS-141 Global Civilization	3
<i>American Lit*</i>	ENG-220 American Literature	3
	FYW 101 Freshman Year Initiative	3
	<b>Total Credits</b>	<b>58</b>

\* Additional Course to be taken at Suffolk or Vaughn College prior to graduation.

## Suggested sequence for Suffolk students after transferring to Vaughn College

SEMESTER V	SEMESTER VI	
MCE 101 Intro to Robotics	MEE340 Comp Methods with MathLab	3
MEE440 Heat Transfer	MEE350 Mechanical Vibrations	3
CDE385 Intro to CATIA 1	MAT356 Probability and Statistics	3
MEE210 Thermodynamics	MEE345 Fluid Mechanics	3
MEE220 Mechanics of Materials	MEE365 Ele of Machine design and Vibration Anal	3
MEE235 Materials Science and Failure Analysis	MEE230 Mechanical Testing and Eval Lab	1
CD 101 Career Development Seminar	ENG 290 Public Speaking	3
Technical Elective		
<b>Semester total</b>	<b>Semester total</b>	<b>19</b>
 SEMESTER VII	 SEMESTER VIII	
EGR460 Engineering Economics	MEE409 Senior Project	3
MEE 370 Finite Element Analysis	HUM255 Technology and Culture	3
EGR380 Engineering Project Management	ENG240 Technical Writing	3
Mat 410 Linear Algebra	MEE355 Engineering Reliability	3
Technical Elective	ELE350 Control Systems 1	3
EGR375 Thermo Fluid Lab	Technical Elective	2
CDE486 Catia 2	Technical Elective	2
<b>Semester total</b>	<b>Semester total</b>	<b>19</b>