Academic Credit Agreement

Tidewater Community College

- AS in Business Administration
- AAS in Computer Aided Drafting & Design
- AAS in Electronics Technology
- AAS in Industrial Technology



Graduate Services-757-688-9066

Rev.Mar2015

BUSINESS ADMINISTRATION (213)

Associate of Science Degree 2012-2013 Catalog

Tidewater Community College	Credits	The Apprentice School Newport News Shipbuilding
	an si	
General Education Courses		
	<u> </u>	
CST 100 - Principles of Public Speaking	3	C243
ENG 111-112 - College Composition I-II	6	
Health/Physical Education Elective	11	See footnote 5
History Elective ³	3	
Humanities Electives ¹	6	
MTH 163 – Precalculus I	3	
MTH 270 - Applied Calculus	3	
Science with Lab Electives ¹	8	
SDV 100 - College Success Skills	1	
Major and Other Courses		
ACC 211 - Principles of Accounting I	3	
ACC 212 - Principles of Accounting II	3	
BUS 216 - Probability and Statistics for	3	B216
Business and Economics	3	D210
BUS 280 – Introduction to International Business	3	
(or ECO 210 – International Economics)	3	
ECO 201 - Principles of Macroeconomics	3	
ECO 202 - Principles of Microeconomics	3	
	<u>-</u>	C232 (for ENG 131), C201 (for
Approved Electives ²	9	ITP 100), C210 (for ITP 132)
Total Credits	61	111 100), 0210 (101117 132)

- Eligible courses are listed on page 28 in the 2012-2013 catalog. Students should consult an academic advisor or counselor to choose the appropriate course(s).
- 2 Consult transfer institution to ensure that the elective is appropriate for the intended transfer program. For students transferring into a general business degree program, select courses from the following: BUS 100, ENG 131, ITP 100, ITP 132, PLS 241. For students transferring into an international business degree program, select courses from the fellowing: ECO 210, GEO 210, GEO 220, GEO 225, HIS 280, PLS 241, PLS 242, REL 230.
- Students may select any of the following courses to meet this requirement: HIS 101,102, 111, 112, 121, or 122.
- Students may substitute CST 110 for CST 100. Consult transfer institution to ensure that the substitution is appropriate for intended transfer program.
- 5 One year participation in NNS athletics, documented by NNS Director of Athletics, is equivalent to one semester hour credit.

The Apprentice School—Newport News Shipbuilding

Student Learning and CAO

Dr. James H. Hughes
Manager, Training

01-14-2013 Date

COMPUTER-AIDED DRAFTING AND DESIGN TECHNOLOGY (729)

Associate of Applied Science Degree 2012-2013 Catalog

Tidewater Community College	Credits	The Apprentice School Newport News Shipbuilding
General Education Courses		
	· · · · · ·	·
ENG 111 - College Composition I	3	
Health/Physical Education Elective ¹ Humanities Elective ¹	2	See footnote 4
	3	
MTH 163 – Precalculus I	3	
MTH 164 – Precalculus II	3	
PHY 201 – General College Physics I ³	4	
(or Approved Technical Elective ²)		
PHY 202 – General College Physics II ³	4	
(or Approved Technical Elective ²)		
SDV 100 – College Success Skills Social Science Electives ¹	11	
Social Science Electives	6	
Major and Other Courses		
CAD 151 - Engineering Drawing Fundamentals I	3	D111
CAD 201 CAD 20	3	
CAD 201 - Computer-Aided Drafting and Design I	4	
CAD 202 - Computer-Aided Drafting and Design II	4	
CAD 211- Advanced Technical Drafting I	3	
CAD 212- Advanced Technical Drafting II	3	
CAD 241- Parametric Solid Modeling	3	D241
CAD 280 - Design Capstone Project	3	
MEC 111 - Materials for Industry	3	M113
MEC 131 – Mechanics I-Statics for Engineering Technology	3	M131
MEC 132 – Mechanics II-Strength of Materials for Engineering Technology (or Approved Technical Elective ²)	3	M132
Approved Technical Elective ²	3	D243, N237, or N250
Total Credits	67	

Eligible courses are listed on page 28 in the 2012-2013 catalog. See the program head or counselor to choose the appropriate course(s).

- 3 Students planning on transferring to a four-year program should take PHY 201-202 and not technical electives.
- 4 One year participation in NNS athletics, documented by NNS Director of Athletics, is equivalent to one semester hour credit.

² Consult with the program head or counselor. Eligible courses for Approved Technical Elective include any ARC, CAD, or MEC courses not required in the program.

The Apprentice School—Newport News Shipbuilding

Daniel T. DeMarte, Vice President for

Student Learning and CAO

Dr. James H. Hughes
Manager, Training

COMPUTER-AIDED DRAFTING AND DESIGN TECHNOLOGY (729.01)

Associate of Applied Science Degree Specialization: Architectural Drafting and Design Technology

Tidewater Community College	Credits	The Apprentice School Newport News Shipbuilding
General Education Courses		
ENG 111 - College Composition I	3	
Health/Physical Education Elective ¹	2	Conference
Humanities Elective ¹	3	See footnote 4
MTH 163 – Precalculus I	3	
MTH 164 – Precalculus II	3	<u> </u>
PHY 201 – General College Physics I ³	4	
(or Approved Technical Elective ²)	4	
PHY 202 - General College Physics II ³	4	
(or Approved Technical Elective ²)	7	
SDV 100 - College Success Skills	1	
Social Science Electives ¹	6	
Major and Other Courses		
ARC 100 - Introduction to Architecture	3	
ARC 121 - Architectural Drafting I	3]
ARC 122 - Architectural Drafting II	3	
ARC 133 - Construction Methodology and	3	
Procedures 1	J	
ARC 221 - Architectural CAD Applications	3	
Software I	_	
CAD 151 - Engineering Drawing Fundamentals I	3	D111
CAD 201 - Computer-Aided Drafting and Design I	4	
CAD 202 - Computer-Aided Drafting and Design II	4	
CAD 280 - Design Capstone Project	3	
MEC 131 - Mechanics I-Statics for Engineering	3	M131
Technology		
MEC 132 - Mechanics II-Strength of Materials for	3	M132
Engineering Technology	}	
(or Approved Technical Elective ²)		
Approved Technical Elective ²	3	D243, N237, or N250
Eligible courses are listed on page 28 in the 2012-2013 catalog.	67	

Eligible courses are listed on page 28 in the 2012-2013 catalog. See the program head or counselor to choose the appropriate

Consult with the program head or counselor. Eligible courses for Approved Technical Elective include any ARC, CAD, or MEC courses not required in the program.

3 Students planning on transferring to a four-year program should take PHY 201-202 and not technical electives.

4 One year participation in NNS athletics, documented by NNS Director of Athletics, is equivalent to one semester hour credit.

The Apprentice School-Newport News Shipbuilding

Dr. James H. Hughes
Manager, Training

Daniel T. DeMarte, Vice President for Student Learning and CAO

ELECTRONICS TECHNOLOGY (981)

Associate of Applied Science Degree 2012-2013 Catalog

Tidewater Community College	Credits	The Apprentice School Newport News Shipbuilding
7 (A)	7.5	
General Education Courses		
ENG 111-112 - College Composition I-II		
Health/Physical Education Elective	6	
Humanities Elective	2	See footnote 4
MTU 166 P	3	500 Toomote 4
MTH 166 - Precalculus with Trigonometry	5	
WITH 1/3 - Calculus with Analytic Goods	5	
111 201 - General College Physics 1	4	
PHY 202 - General College Division	4	
SDV 101 - Orientation to Engineering and		
rechnologies	1	
Social Science Electives	3	
Major and Other Courses		
TR 104 - Electronic Fundamentals with	4	I
Computer Applications	4	X311 and X312
IR 113 - D.C. and A.C. Fundament		
TR 114 - D.C. and A.C. Fundamentals II	4	X311
110 148 - Amplifiers and Integrated Circuits	4	X312
TR 250 - Solid State Circuits	4	X314 A
TR 261 - Microprocessor Application 1	4	X3143B
TR 279 – Digital Principles, Terminology	4	
- AllQ Abblications	4	E277 and E278
TR 297 - Cooperative Education		Aria I O
(or Approved Elective ²)	4	X313, or X315 and X316
		-, 76319 and V310
Total Credits	65	

Eligible courses are listed on page 28 in the 2012-2013 catalog. See the program head or counselor to choose the appropriate course(s).

- 3 ETR 176 may be substituted for ETR 261.
- 4 One year participation in NNS athletics, documented by NNS Director of Athletics, is equivalent to one semester hour credit.

² Approved Electives must be one of the following: ETR 176, EGR 125, or CHM 111.

INDUSTRIAL TECHNOLOGY (963)

Associate of Applied Science Degree 2012-2013 Catalog

Tidewater Community College	Credits	The Apprentice School Newport News Shipbuilding
		The Property of the Property o
General Education Courses		
ENG 111 - College Composition I	3	T
Health/Physical Education Elective ¹	2	S. S. S.
Humanities Elective ¹	3	See footnote 3
MTH 163 – Precalculus I	3	
MTH 164 - Precalculus II		
SDV 101 - Orientation to Engineering and	3	
Technologies	1	
Social Science Electives ¹	6	
	l O	1
Major and Other Courses		
BUS 204 - Project Management	3	
IND 101 - Quality Assurance Technology I	3	
IND 106 - Industrial Engineering Technology	3	C111
IND 115 - Materials and Processes of Industry	4	CIII
IND 121 - Industrial Supervision I	3	B122
IND 137 - Team Concepts and Problem Solving	3	
IND 145 - Introduction to Metrology	3	B117
IND 146 - Statistical Quality Control	3	O681
IND 150 - Industrial Management	3	D215
IND 237 – Fundamentals of ISO 9000	3	B215
SAF 120 - Safety and Health Standards:	3	
Regulations and Codes	3	
SAF 125 - Computer Applications for Technicians	4	C211
Approved IND Elective ²	3	B209
Approved IND Elective ²	3	<i>DE</i> 07
Total Credits	65	

¹ Eligible courses are listed on page 28 in the 2012-2013 catalog. See the program head or counselor to choose the appropriate

Consult with the program head or counselor. Courses must be approved by the appropriate academic dean.
 One year participation in NNS athletics, documented by NNS Director of Athletics, is equivalent to one semester hour credit.

The Apprentice School—Newport News Shipbuilding

Student Learning and CAO

Dr. James H. Hughes
Manager, Training

INDUSTRIAL TECHNOLOGY (963.04)

Associate of Applied Science Degree Specialization: Industrial Supervision 2012-2013 Catalog

Tidewater Community College	Credits	The Apprentice School Newport News Shipbuilding
		A CHARLES OF THE STATE OF THE S
General Education Courses		
ENG 111 - College Composition I	3	
Health/Physical Education Elective ¹	2	Coo footune 2
Humanities Elective ¹	3	See footnote 3
MTH 163 - Precalculus I	3	
MTH 164 – Precalculus II	3	
SDV 101 - Orientation to Engineering and Technologies	1	
Social Science Electives ¹	6	
	l 0	I .
Major and Other Courses		4.
IND 101 – Quality Assurance Technology I	3	T
IND 106 - Industrial Engineering Technology	3	C111
IND 115 - Materials and Processes of Industry	4	CIII
IND 121 – Industrial Supervision I	3	B122
IND 122 - Industrial Supervision II	3	B122
IND 145 - Introduction to Metrology	3	O681
IND 146 - Statistical Quality Control	3	0001
IND 150 - Industrial Management	3	B215
IND 216 - Plant Layout and Materials Handling	3	B213
IND 245 - Time and Motion Study	3	
SAF 120 - Safety and Health Standards:	3	
Regulations and Codes	J	
SAF 125 - Computer Applications for Technicians	4	C211
Approved IND Electives ²	6	B117, B209
Total Credits	65	WALL, 11407

Eligible courses are listed on page 28 in the 2012-2013 catalog. See the program head or counselor to choose the appropriate

Consult with the program head or counselor. Courses must be approved by the appropriate academic dean.

³ One year participation in NNS athletics, documented by NNS Director of Athletics, is equivalent to one semester hour credit.

The Apprentice School—Newport News Shipbuilding

Daniel T. DeMarte, Vice President for

Student Learning and CAO

Dr. James H. Hughes
Manager, Training

INDUSTRIAL TECHNOLOGY (963.05)

Associate of Applied Science Degree Specialization: Quality Assurance 2012-2013 Catalog

Tidewater Community College	Credits	The Apprentice School Newport News Shipbuilding
General Education Courses		
ENG 111 - College Composition I	3	
Health/Physical Education Elective ¹	2	See footnote 3
Humanities Elective ¹	3	See toothole 3
MTH 163 - Precalculus I	3	
MTH 164 - Precalculus II	3	
SDV 101 – Orientation to Engineering and Technologies	1	
Social Science Elective ¹	6	
		The section of
Major and Other Courses		
IND 101 - Quality Assurance Technology I	3	
IND 102 - Quality Assurance Technology II	3	
IND 105 – Nondestructive Inspection (NDI) and Testing	3	
IND 106 - Industrial Engineering Technology	3	C111
IND 115 - Materials and Processes of Industry	4	CIII
IND 145 – Introduction to Metrology	3	O681
IND 146 - Statistical Quality Control	3	0001
IND 150 - Industrial Management	3	B215
IND 236 - Total Quality Concepts	3	B209
IND 237 – Fundamentals of ISO 9000	3	1 2207
SAF 120 - Safety and Health Standards: Regulations and Codes	3	
SAF 125 - Computer Applications for Technicians	4	C211
Approved IND Elective ²	3	B122
Approved IND Elective ²	3	B117
Total Credits	65	D111

¹ Eligible courses are listed on page 28 in the 2012-2013 catalog. See the program head or counselor to choose the appropriate

Consult with the program head or counselor. Courses must be approved by the appropriate academic dean.
 One year participation in NNS athletics, documented by NNS Director of Athletics, is equivalent to one semester hour credit.

The Apprentice School—Newport News Shipbuilding

Daniel T. DeMarte, Vice President for

Student Learning and CAO

Dr. James H. Hughes Manager, Training

INDUSTRIAL TECHNOLOGY (963.06)

Associate of Applied Science Degree Specialization: Industrial Manufacturing Engineering Technology 2012-2013 Catalog

Tidewater Community College	Credits	The Apprentice School Newport News Shipbuilding
		Parallelia
General Education Courses		
ENG 111 – College Composition I	1 2	
Health/Physical Education Elective ¹	3	
Humanities Elective	2	See footnote 3
MTH 163 – Precalculus I	3	
MTH 164 – Precalculus II	3	
SDV 101 - Orientation to Engineering and	3	
Technologies	1	
Social Science Electives ¹	6	
	0	
Major and Other Courses		
BUS 204 - Project Management	3	
IND 101 - Quality Assurance Technology I	3	
IND 115 - Materials and Processes of Industry	4	
IND 145 - Introduction to Metrology	3	0681
IND 146 - Statistical Quality Control	3	0081
IND 150 - Industrial Management	3	B215
IND 160 - Introduction to Robotics	3	10213
IND 216 - Plant Layout and Materials Handling	3	
IND 245 - Time and Motion Study	3	
IND 251 - Automated Manufacturing Systems I	3	
SAF 120 - Safety and Health Standards:	3	
Regulations and Codes	<i>3</i>	·
SAF 125 - Computer Applications for Technicians	4	C211
Approved IND Electives ²	6	C111, B122, B117, B209
Total Credits	65	, D122, B117, B203

¹ Eligible courses are listed on page 28 in the 2012-2013 catalog. See the program head or counselor to choose the appropriate

Consult with the program head or counselor. Courses must be approved by the appropriate academic dean.
 One year participation in NNS athletics, documented by NNS Director of Athletics, is equivalent to one semester hour credit.

The Apprentice School—Newport News Shipbuilding

Daniel T. DeMarte, Vice President for Student Learning and CAO

Dy. James H. Hughes
Manager, Training

INDUSTRIAL TECHNOLOGY (963.10)

Associate of Applied Science Degree Specialization: Industrial Maintenance Technology 2012-2013 Catalog

Tidewater Community College	Credits	The Apprentice School Newport News Shipbuilding
General Education Courses		
ENG 111 - College Composition I	3	
Health/Physical Education Elective ¹	2	See footnote 3
Humanities Elective ¹	3	- Coo Isothote 5
MTH 163 – Precalculus I	3	
MTH 164 – Precalculus II	3	
SDV 101 - Orientation to Engineering and Technologies	1	
Social Science Electives ¹	6	
Conference of the Conference o	<u> </u>	
Major and Other Courses	•	
BUS 204 - Project Management	3	
IND 101 - Quality Assurance Technology I	3	
IND 105 - Nondestructive Inspection (NDI) And Testing	3	
IND 115 - Materials and Processes of Industry	4	
IND 145 - Introduction to Metrology	3	O681
IND 146 - Statistical Quality Control	3	0001
IND 150 - Industrial Management	3	B215
IND 165 - Principles of Industrial Technology I	4	
IND 166 - Principles of Industrial Technology II	- 4	
SAF 120 - Safety and Health Standards: Regulations and Codes	3	
SAF 125 - Computer Applications for Technicians	4	C211
SAF 135 – Safety Program Organization and Administration	3	
Approved IND Electives ²	6	C111, B122, B117, B209
Total Credits	67	,,,,

¹ Eligible courses are listed on page 28 in the 2012-2013 catalog. See the program head or counselor to choose the appropriate

Consult with the program head or counselor. Courses must be approved by the appropriate academic dean.
 One year participation in NNS athletics, documented by NNS Director of Athletics, is equivalent to one semester hour credit.

The Apprentice School—Newport News Shipbuilding

Daniel T. DeMarte, Vice President for

Student Learning and CAO

De James H. Hughes Manager, Training

11/27/2012 Date

INDUSTRIAL TECHNOLOGY (963.12)

Associate of Applied Science Degree Specialization: Occupational Safety 2012-2013 Catalog

Tidewater Community College	Credits	The Apprentice School Newport News Shipbuilding
General Education Courses		
ENG 111 - College Composition I	3	T
Health/Physical Education Elective ¹	2	See footnote 3
Humanities Elective ¹	3	dec roomete 3
MTH 163 - Precalculus I	3	
MTH 164 - Precalculus II	3	
SDV 101 - Orientation to Engineering and Technologies	1	
Social Science Electives ¹	6	
Major and Other Courses		
IND 101 - Quality Assurance Technology I	3	
IND 115 - Materials and Processes of Industry	4	
IND 145 – Introduction to Metrology	3	O681
IND 146 – Statistical Quality Control	3	0001
IND 150 - Industrial Management	3	B215
IND 245 - Time and Motion Study	4	
SAF 120 - Safety and Health Standards: Regulations and Codes	3	
SAF 125 - Computer Applications for Technicians	4	C211
SAF 126 - Principles of Industrial Safety	3	
SAF 135 – Safety Program Organization and Administration	3	
SAF 205 – Human Factors and Safety Psychology	3	
SAF 246 – Hazardous Chemicals, Materials, and Waste in the Workplace	3	
Approved IND/SAF Electives ²	6	C111, B122, B117, B209
Total Credits	65	0111, D122, D117, B209

¹ Eligible courses are listed on page 28 in the 2012-2013 catalog. See the program head or counselor to choose the appropriate

Consult with the program head or counselor. Courses must be approved by the appropriate academic dean.
 One year participation in NNS athletics, documented by NNS Director of Athletics, is equivalent to one semester hour credit.

The Apprentice School—Newport News Shipbuilding

Daniel T. DeMarte, Vice President for

Student Learning and CAO

Dr. James H. Hughes
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