College Transfer Programs

A 10 40 0 Associate in Science

CONCENTRATION OVERVIEW

The Associate in Science Degree is designed to meet the two-year general college requirement of four-year colleges and universities. The curriculum has a heavy concentration in mathematics and science areas to allow College of The Albemarle students, after two years of study, to transfer with junior-level status. This curriculum is suited to students who want to pursue a four-year degree in areas of study such as computer science, engineering, mathematics, the sciences or professional programs that require strong mathematics and science backgrounds.

Upon completion of this concentration, graduates will be able to analyze and solve quantitative problems, reason logically from hypothesis to conclusion, apply mathematics techniques in scientific problem solving, and use laboratory technology, equipment, and techniques critically and safely to investigate scientific problems using proper scientific methods.

Student Learning Outcomes – Upon completion of the program, students will:

- Write effective documents that are unified, coherent, well developed, and which adhere to standard grammar and mechanics.
- 2. Deliver oral presentations that are unified, coherent, well developed, and which adhere to standard grammar. In addition, students will demonstrate proficiency in components of delivery which may include eye contact, posture/body language, volume, articulation, and use of time.
- 3. Demonstrate an understanding of basic computer terminology and file management. In addition, students will demonstrate working knowledge of applications which may include: email, web browser, word processor, spreadsheet, and presentation software.
- 4. Perform basic arithmetic and algebraic computations. In addition, students will apply these skills in problem solving and in the interpretation of quantitative data.
- 5. Locate, evaluate, and utilize information using a variety of print and electronic sources.
- 6. Apply appropriate scientific methods.

In compliance with state transfer articulation agreements, only courses with a grade of C or higher will fulfill degree requirements in this program.

Partnership: College of The Albemarle has articulation agreements with certain universities for students transferring into specific programs of study. Students can complete the first two years of that specific baccalaureate degree at College of The Albemarle. Students should check with their advisor and the COA website for more information. www.albemarle.edu/student-resources/transfer-from-coa/

COA students who earn an Associate of Science degree and follow the designated degree plans can transition seamlessly into the Bachelor of Science in Biology and Biblical Studies degree or the Bachelor of Science in Science Education degree at Mid Atlantic Christian University.

Continue to next page for Curriculum Guide



A 10 40 0 Associate in Science - First Year

NUMBER	COURSE TITLE	SEMESTER	CO-REQUISITES	PRE-REQUISITES	CREDIT	
STUDENT SU	JCCESS				1	
ACA 122	College Transfer Success			None	1	
COMPOSITION						
ENG 111						
ENG 112	Writing/Research in the Disciplines	ENG 111		ENG 111	3	
MATHEMATICS						
171 with a gra	T 003 Tier 2 or MAT 143	271 (MAT 172 w	vith a grade of C or highe	grade of C or higher), MAT 2 er), or MAT 272 (MAT 271 with 271. Varies – pre-requisites in		
			Varies	parentheses	4	
			Varies	Varies – pre-requisites in parentheses	4	
NATURAL SO	CIENCES course sequence from:				8	
requisite MAT	272).		Varies	Varies – pre-requisites in parentheses	4	
			Varies	-	4	
			., .		_	
COMPLITED	SCIENCE		Varies	Varies – pre-requisites in parentheses	4	
			Varies	Varies – pre-requisites in	4	
Select 1 cour	rse from:	3 Tier 1) or CIS		Varies – pre-requisites in		
Select 1 cour		3 Tier 1) or CIS		Varies – pre-requisites in		
Select 1 cour CIS 110 (ENG SOCIAL/BEH	rse from: G 002 Tier 1 and MAT 003 AVIORAL SCIENCES		115 (MAT 003 Tier 1).*	Varies – pre-requisites in parentheses Varies – pre-requisites in	3	
SOCIAL/BEH Select 2 cour ECO 251 (EN Tier 1), HIS 1	rse from: 6 002 Tier 1 and MAT 003 AVIORAL SCIENCES rses from different disci	plines (1 cours 03 Tier 1), ECO 2 131 (ENG 002	115 (MAT 003 Tier 1).* se each year): 252 (ENG 002 Tier 1 and Tier 1), HIS 132 (ENG 0	Varies – pre-requisites in parentheses Varies – pre-requisites in parentheses MAT 003 Tier 1), HIS 111 (E) Tier 1), POL 120 (ENG 002)	3 3 NG 002	
SOCIAL/BEH Select 2 cour ECO 251 (EN Tier 1), HIS 1	Se from: G 002 Tier 1 and MAT 003 AVIORAL SCIENCES Ses from different disci G 002 Tier 1 and MAT 00 12 (ENG 002 Tier 1), HIS	plines (1 cours 03 Tier 1), ECO 2 131 (ENG 002	115 (MAT 003 Tier 1).* se each year): 252 (ENG 002 Tier 1 and Tier 1), HIS 132 (ENG 0	Varies – pre-requisites in parentheses Varies – pre-requisites in parentheses MAT 003 Tier 1), HIS 111 (E	3 3 NG 002	
Select 1 cour CIS 110 (ENG SOCIAL/BEH Select 2 cour ECO 251 (EN Tier 1), HIS 1 PSY 150 (ENG	AVIORAL SCIENCES Sees from different discing 002 Tier 1 and MAT 003 G 002 Tier 1 and MAT 003 12 (ENG 002 Tier 1), HIS G 002 Tier 1), or SOC 21	plines (1 cours 03 Tier 1), ECO 2 131 (ENG 002	115 (MAT 003 Tier 1).* se each year): 252 (ENG 002 Tier 1 and Tier 1), HIS 132 (ENG 0	Varies – pre-requisites in parentheses Varies – pre-requisites in parentheses MAT 003 Tier 1), HIS 111 (E 02 Tier 1), POL 120 (ENG 002 Varies – pre-requisites in	3 3 NG 002 2 Tier 1),	
Select 1 cour CIS 110 (ENG SOCIAL/BEH Select 2 cour ECO 251 (EN Tier 1), HIS 1: PSY 150 (ENG HEALTH/WEI Select 2-3 cro HEA 110 – 3 courses (Leve	AVIORAL SCIENCES Sees from different discistance G 002 Tier 1 and MAT 003 G 002 Tier 1 and MAT 003 G 002 Tier 1 and MAT 003 G 002 Tier 1, HIS G 002 Tier 1), or SOC 21 LLNESS Edit hours from: Credit hours (ENG 002 Ties) G 1 and Beginning activity	plines (1 cours 3 Tier 1), ECO 2 131 (ENG 002 0 (ENG 002 Tie er 1), PED 110 -	115 (MAT 003 Tier 1).* Tie each year): 252 (ENG 002 Tier 1 and Tier 1), HIS 132 (ENG 00 r 1). - 2 credit hours (none), cono pre-requisites; Level 2	Varies – pre-requisites in parentheses Varies – pre-requisites in parentheses MAT 003 Tier 1), HIS 111 (E 02 Tier 1), POL 120 (ENG 002 Varies – pre-requisites in	3 3 NG 002 2 Tier 1),	
SOCIAL/BEH Select 2 cour ECO 251 (EN Tier 1), HIS 1 PSY 150 (EN HEALTH/WEI Select 2-3 cro HEA 110 – 3 courses (Leve	AVIORAL SCIENCES Sees from different discience of the control of t	plines (1 cours 3 Tier 1), ECO 2 131 (ENG 002 0 (ENG 002 Tie er 1), PED 110 -	115 (MAT 003 Tier 1).* Tie each year): 252 (ENG 002 Tier 1 and Tier 1), HIS 132 (ENG 00 r 1). - 2 credit hours (none), cono pre-requisites; Level 2	Varies – pre-requisites in parentheses Varies – pre-requisites in parentheses MAT 003 Tier 1), HIS 111 (E 02 Tier 1), POL 120 (ENG 002 Varies – pre-requisites in parentheses	3 3 NG 002 2 Tier 1),	

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A 10 40 0 Associate in Science - Second Year

COURSE	COURSE TITLE	SEMESTER	CO-REQUISITES	PRE-REQUISITES	CREDITS	
NUMBER	COURSE TITLE	SEMESTER	CO-REQUISITES	PRE-REQUISITES	CREDITS	
MATHEMATI	CS/NATURAL SCIENCE	ES			6-8	
Select 2 cour						
•	•	• ,	,	rade of C or higher), MAT 271	•	
•	• ,	•	• ,	MAT 273 (MAT 272 with a gr		
- ,	•			CHM 151 (ENG 002 Tier 1 and		
			• ,), PHY 151 (MAT 171 or MAT	271), PHY 15	
•	HY 251 (MAT 271 and co	•	,	•		
		for MAT 263 i	they have taken MAT 2	71-272. Students can only rec	eive credit for	
one PHY sequ	uence in this degree.	1		1		
			Varies	Varies – pre-requisites in	3-4	
				parentheses		
			Varies	Varies – pre-requisites in	3-4	
FOREIGN LA	NCHACE			parentheses	3	
					3	
Select 1 cour		tudanta may a	ubatituta any faraign land	wage course ended as CENT	-D.	
•	, , ,	•	, ,	juage course coded as GEN E course list. Students may use		
	SPA or FRE course in pla		• ,	course list. Students may use	a	
Tilgilei level 3			OFFICE TITE	Varies – pre-requisites in		
				parentheses	3	
HUMANITIES	S/FINE ARTS			Pai. 5.111.15555	3	
Select 1 cou						
		Tier 1). ART 1	15 (ENG 002 Tier 1). DR	A 111 (none), ENG 231 (ENG	112). ENG	
•	,	•	,	, MUS 112 (none), or PHI 240	, .	
	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	` '	,, ,	, ,,,) (ENG 111).	
				Varies – pre-requisites in	,	
				Varies – pre-requisites in parentheses	3 (ENG 111).	
SOCIAL/BEH	IAVIORAL SCIENCES			i i	,	
	IAVIORAL SCIENCES rses from different disc	ciplines (1 cou	irse each year):	i i	3	
Select 2 cour	rses from different disc		•	i i	3	
Select 2 cou ECO 251 (EN	rses from different disc IG 002 Tier 1 and MAT 0	03 Tier 1), EC	O 252 (ENG 002 Tier 1 a	parentheses	3 3 (ENG 002	
Select 2 cour ECO 251 (EN Tier 1), HIS 1	rses from different disc IG 002 Tier 1 and MAT 0 12 (ENG 002 Tier 1), HIS	03 Tier 1), EC S 131 (ENG 00	O 252 (ENG 002 Tier 1 a 2 Tier 1), HIS 132 (ENG	parentheses nd MAT 003 Tier 1), HIS 111	3 3 (ENG 002 02 Tier1),	
Select 2 cour ECO 251 (EN Tier 1), HIS 1 PSY 150 (EN	rses from different disc IG 002 Tier 1 and MAT 0 12 (ENG 002 Tier 1), HIS	03 Tier 1), EC 5 131 (ENG 00 10 (ENG 002 T	O 252 (ENG 002 Tier 1 a 2 Tier 1), HIS 132 (ENG	parentheses nd MAT 003 Tier 1), HIS 111 002 Tier 1), POL 120 (ENG 0	3 3 (ENG 002 02 Tier 1),	
Select 2 cour ECO 251 (EN Tier 1), HIS 1 PSY 150 (EN	rses from different disc IG 002 Tier 1 and MAT 0 12 (ENG 002 Tier 1), HIS G 002 Tier 1), or SOC 2	03 Tier 1), EC 5 131 (ENG 00 10 (ENG 002 T	O 252 (ENG 002 Tier 1 a 2 Tier 1), HIS 132 (ENG	parentheses nd MAT 003 Tier 1), HIS 111 002 Tier 1), POL 120 (ENG 0	3 (ENG 002 02 Tier 1), pline than the	
Select 2 cour ECO 251 (EN Tier 1), HIS 1 PSY 150 (EN	rses from different disc IG 002 Tier 1 and MAT 0 12 (ENG 002 Tier 1), HIS G 002 Tier 1), or SOC 2	03 Tier 1), EC 5 131 (ENG 00 10 (ENG 002 T	O 252 (ENG 002 Tier 1 a 2 Tier 1), HIS 132 (ENG	parentheses nd MAT 003 Tier 1), HIS 111 002 Tier 1), POL 120 (ENG 0 must be from a different disci	3 3 (ENG 002 02 Tier 1),	
Select 2 cour ECO 251 (EN Tier 1), HIS 1 PSY 150 (EN	rses from different disc IG 002 Tier 1 and MAT 0 12 (ENG 002 Tier 1), HIS G 002 Tier 1), or SOC 2 ^o al/behavioral science cou	03 Tier 1), EC 5 131 (ENG 00 10 (ENG 002 T	O 252 (ENG 002 Tier 1 a 2 Tier 1), HIS 132 (ENG	parentheses nd MAT 003 Tier 1), HIS 111 002 Tier 1), POL 120 (ENG 0 must be from a different disci	3 (ENG 002 02 Tier1), pline than the	

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COLLEGE OF THE ALBEMARLE

OTHER REQUIRED MATHEMATICS/SCIENCES

3-4

Select 1 course from:

MAT 172 (MAT 171 with a grade of C or higher), MAT 263 (MAT 171 with a grade of C or higher), MAT 271 (MAT 172 with a grade of C or higher), MAT 272 (MAT 271 with a grade of C or higher), MAT 280 (MAT 272 with a grade of C or higher), MAT 280 (MAT 271 with a grade of C or higher), MAT 285 (MAT 272 with a grade of C or higher), BIO 111 (ENG 002 Tier 1 and MAT 003 Tier 1), BIO 112 (BIO 111), BIO 163 (ENG 002 Tier 1, and either BIO 090 or one unit of HS Biology) BIO 168 (ENG 002 Tier 1 and MAT 003 Tier 2, and either BIO 090 or one unit of HS Biology, and either CHM 090 or one unit of HS Chemistry), BIO 169 (BIO 168), BIO 275 (BIO 111 or BIO 163 or BIO 168), CHM 130 (CHM 090 or one unit of HS Chemistry), CHM 151 (ENG 002 Tier 1 and MAT 003 Tier 2, and either CHM 090 or one unit of HS chemistry), CHM 152 (CHM151), PHY 151 (MAT 171 or MAT 271), PHY 152 (PHY 151), PHY 251 (MAT 271 and Co-requisite MAT 272), or PHY 252 (MAT 272 and PHY 251)

NOTE: Students cannot receive credit for BIO 163 if they have taken BIO 168-169. Students cannot receive credit for CHM 130 if they have taken CHM 151-152. Students cannot receive credit for MAT 263 if they have taken MAT 271-272. Students can only receive credit for one PHY sequence in this degree.

	, ,				
			Varies – pre-requisites in	3-4	
			parentheses	3-4	
ADDITIONAL COURSEWORK					
Select 4-8 additional credit hours from the College of The Albemarle list of Comprehensive Articulation Agreement (CAA) courses.				4-8	
			Varies	Varies	
			Varies	Varies	
TOTAL SEMESTER HOURS REQUIRED FOR ASSOCIATE DEGREE				60-61**	

^{*}This requirement is used to demonstrate computer literacy to meet institutional core competencies. Students may also demonstrate this proficiency via high school articulated credit, course substitution, or credit by exam (CBE). Students requesting CBE must provide substantial reason(s) why they are qualified to sit for the exam. If computer literacy proficiency is demonstrated in a manner which does not result in degree credit, 3 credit hours of General Education electives from the CAA list must be taken in place of CIS 110.

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^{**}The total number of elective hours needed is based upon course choices made in the Mathematics/Natural Sciences and Health/Wellness areas. A student must have 60-61 credit hours to complete the degree.

A 10 40 0 Associate in Science Suggested Sequence of Courses

First Year Fall Semester Course Number and Title	Pre-Requisites and Co-Requisites	Class Hours	Lab Hours	Clinical Hours	Total Contact Hours	Total Credit Hours
ACA 122 College Transfer Success	Pre-Requisites: None	0	2	0	2	1
ENG 111 Writing and Inquiry	Pre-Requisites: ENG 002 Tier 1 Co-Requisites: ENG 011	3	0	0	3	3
Mathematics	Pre-Requisites: Varies Co-Requisites: Varies	3	2	0	5	4
Natural Science	Pre-Requisites: Varies Co-Requisites: Varies	3	2-3	0	5-6	4
Computer Science	Pre-Requisites: Varies	2	2-3	0	4-5	3
TOTAL SEMESTER HOURS		11	8-10	0	19-21	15
First Year Spring Semester Course Number and Title	Pre-Requisites and Co-Requisites	Class Hours	Lab Hours	Clinical Hours	Total Contact Hours	Total Credit Hours
ENG 112 Writing/Research in Disciplines	Pre-Requisites: ENG 111	3	0	0	3	3
Mathematics	Pre-Requisites: Varies Co-Requisites: Varies	3	2	0	5	4
Natural Science	Pre-Requisites: Varies Co-Requisites: Varies	3	2-3	0	5-6	4
Social/Behavioral Science	Pre-Requisites: Varies	3	0	0	3	3
Health/Wellness	Pre-Requisites: Varies	0-3	2-3	0	2-3	2-3
TOTAL SEMESTER HOURS		12-15	6-8	0	18-20	16-17
Second Year Fall Semester Course Number and Title	Pre-Requisites and Co-Requisites	Class Hours	Lab Hours	Clinical Hours	Total Contact Hours	Total Credit Hours
Mathematics/ Natural Science	Pre-Requisites: Varies Co-Requisites: Varies	2-3	2-3	0	5-6	3-4
Social/Behavioral Science	Pre-Requisites: Varies	3	0	0	3	3
Humanities/Fine Arts	Pre-Requisites: Varies	3	0	0	3	3
Foreign Language	Pre-Requisites: None	3	0	0	3	3
Elective(s) (CAA)	Pre-Requisites: Varies	Varies	Varies	0	Varies	2-3
TOTAL SEMESTER HOURS		Varies	Varies	0	Varies	14-16
Second Year Spring Semester Course Number and Title	Pre-Requisites and Co-Requisites	Class Hours	Lab Hours	Clinical Hours	Total Contact Hours	Total Credit Hours
Mathematics/ Natural Science	Pre-Requisites: Varies Co-Requisites: Varies	3	2-3	0	5-6	4
Mathematics/ Natural Science	Pre-Requisites: Varies Co-Requisites: Varies	2-3	2-3	0	5-6	3-4
COM 231 Public Speaking	Pre-Requisites: ENG 111	3	0	0	3	3
Elective(s) (CAA)	Pre-Requisites: Varies	Varies	Varies	0	Varies	2-5
TOTAL SEMESTER HOURS		Varies	Varies	0	Varies	12-16
TOTAL DEGREE HOURS REQUIRED FOR ASSOCIATE DEGREE						

^{*}Number of hours of elective coursework needed is based upon course choices made in the first year mathematics course, in other general education hours, and in the health/wellness choice. Courses should be chosen based upon requirements for student's intended major at the receiving four-year institution. A student must have 60-61 credit hours to complete the degree.