



Systems Administration- Associate in Applied Science (2020-2021 Catalog)

SEMESTER-BY-SEMESTER PROGRAM MAP FOR FULL-TIME STUDENTS

Courses are listed in preferred order of completion

Plans can be modified to fit student needs by adding more semesters

Choose your courses with your Advisor.

Developmental Education Courses (if required)					
<input type="checkbox"/>	ACLS050	Introduction to Academic Literacy	<input type="checkbox"/>	MATH020	Pre-Algebra
<input type="checkbox"/>	ENGL027	Writing Skills Workshop	<input type="checkbox"/>	MATH022	Elementary Algebra
<input type="checkbox"/>			<input type="checkbox"/>	MATH026	Intermediate Algebra

Location: B= BETH, M= MROE, S=SBTH, E= ESTN, D= DIST *subject to change

complete	Course #	Course Title	Credits	Gen Ed	Fall	Winter	Spring	Summer	Pre-requisites / Co-requisites
Semester 1	<input type="checkbox"/>	COLS101	College Success	1		B, M, D	----	B, M, D	D
	<input type="checkbox"/>	ENGL101	English I	3	Comm.	B, M, D, E	----	B, M, D, E	B, M, D
	<input type="checkbox"/>	CISC100	Information Technology Fundamentals	4	CL	B, M, D	----	B, M, D	---
	<input type="checkbox"/>	CISC136	PC Support and Troubleshooting	4		B	----	B	----
	<input type="checkbox"/>	ELEC101	DC/AC Circuit Analysis I	4		B	----	----	----
		Total Semester Credits:	16						
Semester 2	<input type="checkbox"/>	CISC105	Desktop Operating Systems	4		B	----	B, M	----
	<input type="checkbox"/>	CISC137	Introduction to Networking Hardware	2		B	----	B	----
	<input type="checkbox"/>	CISC254	Server I	3		----	----	B	----
	<input type="checkbox"/>	CMTH102	Introduction to Communication	3	Comm.	B, M, D, E	----	B, M, D, E	B, M, D
	<input type="checkbox"/>	ENGL151R	English II (Report Writing)	3	Comm.	B, M	----	B, M	B, D
		Total Semester Credits:	15						
Semester 3	<input type="checkbox"/>	CISC255	Server II	3		B	---	---	---
	<input type="checkbox"/>		Technical Elective*	3/4		B	----	B	B
	<input type="checkbox"/>	BUSA221G	Business Communication (WI)	3		B, M, D	----	B, M, D	D
	<input type="checkbox"/>	MATH	Mathematics Elective	3	QL	B, M, D	D	B, M, D	B, M, D
	<input type="checkbox"/>		AH,SIT,SSHB General Education Elective	3	AH,SIT or SSHB	B, M, D	D	B, M, D	B, M, D
		Total Semester Credits:	15/16						
Semester 4	<input type="checkbox"/>	CISC286	Linux Administration	4		---	---	B, M	---
	<input type="checkbox"/>	CISC251	Network Administration and Maintenance	3		---	---	B	---
	<input type="checkbox"/>		AH,SIT,SSHB General Education Elective	3	AH,SIT or SSHB	B, M, D	D	B, M, D	B, M, D
	<input type="checkbox"/>		AH,SIT,SSHB General Education Elective	3	AH,SIT or SSHB	B, M, D	D	B, M, D	B, M, D
	<input type="checkbox"/>		Elective	3		B, M, D	D	B, M, D	B, M, D
		Total Semester Credits:	16						
		Total Degree Credits	62/63						

General Education Requirements

<input type="checkbox"/>		Diversity
<input type="checkbox"/>	BUSA221G	Writing Intensive

Notes:

- Mathematics Elective options: MATH 103, 120, 140, 145, 150, 160, 165, 175, 180, 181, 210, 211
- Technical Elective options: CISC 115, 128, 265, 278; ELEC 126, 151
- For the General Education Electives, students must take three courses from at least two of the following areas: Arts & Humanities (AH); Social Science: Society and Institutions over Time (SIT) or Social Science: Scientific Study of Human Behavior (SSHB).
- One course should be designated as Diversity and Global Awareness (D).

*It is the student's responsibility to be knowledgeable of NCC graduation requirements and to verify transfer requirements with the 4-year institution. Courses listed on the program map are based upon the assumption that prerequisites and courses taken in previous semesters will be successfully completed

Arts & Humanities (AH)	Societies & Institutions Over Time (SIT)	Electives for A.A. & A.S. Degrees	Diversity (D) Electives
ARTA 100 Art and Visual Thinking ARTA 101 Art History Survey CMTH 110 Introduction to the Theatre CMTH 111 Acting I CMTH 115 Technical Theatre CMTH 117 Stagecraft CMTH 126 The Communication Arts CMTH 189 Stage Voice and Movement CMTH 190 Stage Production CMTH 206 Directing CMTH 211 Plays: Classical to Contemp. (G-WI) CMTH 212 Acting II CMTH 218 Theatre Portfolio CMTH 220 Introduction to Film DANC 101 Dance History DANC 110 Ballet I DANC 120 Modern Dance I DANC 130 Jazz I DANC 210 Ballet II DANC 220 Modern Dance II DANC 230 Jazz II ENGL 201 British Literature I (G-WI) ENGL 203 Shakespeare (G-WI) ENGL 205 American Literature I (G-WI) ENGL 211 Plays: Classical to Contemp. (G-WI) ENGL 215 Multicultural Adolescent Lit (G-WI) ENGL 250 Latin American Literature (G-WI) ENGL 251 British Literature II (G-WI) ENGL 253 Creative Writing ENGL 255 American Literature II (G-WI) ENGL 256 Modern Poetry (G-WI) ENGL 257 20th Century Lit by Women (G-WI) ENGL258 Fiction Writing ENGL 260 Contemporary Literature (G-WI) ENGL 264 Irish Literature (G-WI) ENGL 265 African-American Literature (G-WI) ENGL 267 Poetry Writing HUMA 121 The American Work Experience (G-WI) HUMA 140 Intro to Women & Gender Studies (G-WI) HUMA 150 Nature of the Environment HUMA210 Creativity and the Origin of Ideas JOUR 101 Journalism and Society Modern Language - All MDLA Courses MUSC 101 Introduction to Music PHIL 111 On Death and Dying (G-WI) PHIL 121 World Religions PHIL 201 Introduction to Philosophy PHIL 202 Ethics and Moral Problems (G-WI) PHIL 204 Asian Philosophies PHIL 211 Ancient Philosophy PHIL 215 Modern Philosophy PHIL 225 What is Freedom?	CMTH 221 History of Broadcasting GEOG 101 World Geography GEOG 151 Geography of the U.S. and Canada (G-WI) GLOB 130 Intro to Global Studies GLOB 160 Field Experience & Acad Research in GS GLOB 230 Global Studies Capstone HIST 103 Ancient and Medieval History HIST 113 American History I (G-WI) HIST 121 The Black Experience (G-WI) HIST 123 African Civilization HIST 140 Modern Chinese History HIST 153 Found of Mod Euro History, 1300-1815 (G-WI) HIST 163 American History II HIST 165 The American Experience of Warfare (G-WI) HIST 166 Civil War and Reconstruction (G-WI) HIST 168 History of the Middle East (G-WI) HIST 173 Mod European History, 1815 to Present (G-WI) HIST 210 History of Mod Science, 1859 to Present HIST 211 History of Pennsylvania INTS 201 Implementing Sustainable Energy System... INTS 202 The Architecture of the City: Classic to Contemp. POLS 101 Introduction to Political Science POLS 105 American Constitutional Law (G-WI) POLS 110 American National Government (G-WI) POLS 150 Peace Studies & Conflict Resolution (Study Abroad) POLS 170 Politics of Modern Turkey (Study Abroad) POLS 202 International Relations POLS 205 Women and Politics (G-WI) POLS 251 State and Local Government (G-WI) SOCA 102 Cultural Anthropology (G-WI) SOCA 105 American Ethnicity SOCA 160 Issues in Contemp.Genocide & Mass Violence	Accounting – only ACCT 100, 101, 151, 201, 202, 251 Architecture – only ARCH 100 Art – only ARTA 101, 111, 161, 162, 291, 292, 293 Biological Science – all BIOS except 281, 282, 283 Business – only BUSA 101, 115, 152, 201, 202, 205, 232, 272 Chemistry – only CHEM 105, 120, 135, 220, 225, 251, 260, 291, 292, 293, 294 College Success: COLS101, 120 Communications – all CMTH except 180, 182, 185, 240, 252 Computer/Information Science – only CISC 101, 104, 115, 125, 225, 230, 270 Counseling – only COUN 100, 291, 292, 293 Dance – all DANC Economics – ECON201, 251G Education – all EDUC except 105 Engineering – only ENGG 100, 191, 192, 193, 194, 201, 251, 252 English – all ENGL Geography – all GEOG Global Studies - GLOB130, 160, 230 Health – only HEAL 150 History – all HIST Hospitality – only HOSP 101 Humanities – all HUMA Interdisciplinary Studies – INTS 101, 202, 250 Journalism – only JOUR 103 Mathematics – only MATH 120, 140, 145, 150, 160, 165, 175, 176, 180, 181, 191-194, 202, 210, 211 Modern Language – all MDLA Music – all MUSC Nutrition- NUTR105 Philosophy – all PHIL Physical Education – any PHED courses up to a max of two credits Physics – all PHYS Political Science – all POLS Publishing - 101, 102 Psychology – all PSYC except 221 Sociology/Antropology – all SOCA Special Education – SPED 160	BIOS 126 Environmental Science BIOS 210 Environmental Biology BUSA 115 Intro to International Business CJST 250 Contemporary Issues in Criminal Justice CMTH 126 The Communication Arts CMTH 211 Plays: Classical to Contemporary CMTH 215 Intercultural Communication DANC 101 Dance History ENGL 151L English II (Literature) ENGL 205 American Literature I ENGL 211 Plays: Classical to Contemporary ENGL 215 Multicultural Adolescent Literature ENGL 250 Latin American Literature ENGL 251 British Literature II ENGL 253 Creative Writing ENGL 255 American Literature II ENGL 256 Modern Poetry ENGL 257 20th Century Lit by Women ENGL 260 Contemporary Literature ENGL 264 Irish Literature ENGL 265 African-American Literature ENGL 267 Poetry Writing GEOG 101 World Geography GEOG 121 Environmental Sustainability GEOG 151 Geography of the U.S. and Canada GEOG 210 Weather and Climate GLOB 130 Intro to Global Studies GLOB 160 Field Experience & Acad Research in GS GLOB 230 Global Studies Capstone HIST 113 American History I HIST 121 The Black Experience HIST 140 Modern Chinese History HIST 165 The American Experience of Warfare HIST 166 Civil War & Reconstruction HIST 168 History of the Middle East HIST 173 Mod Euro History: 1815-Present HUMA 121 American Work Experience HUMA 140 Intro to Women and Gender Studies HUMA 150 Nature of the Environment HUMA210 Creativity and The Origin of Ideas INTS 201 Implement Sustain Energy Sys in Dev Com Modern Language - All MDLA Courses PHIL111 On Death and Dying PHIL 121 World Religions PHIL 204 Asian Philosophies POLS 101 Introduction to Political Science POLS 105G American Constitutional Law POLS 150 Peace Studies & Conflict Resolution (Study
	Scientific Study of Human Behavior (SSHB) ECON 201 Macroeconomics GEOG 121 Environmental Sustainability (G-WI) GEOG 140 Investigating Climate Change) GEOG 271 Intro to Geographic Info Systems HUMA 250 Research Methods in Social Sciences (G-WI) INTS 250 Study Abroad PSYC 103 Introduction to Psychology (G-WI) PSYC 205 Research Methods PSYC 230 Introduction to Health Psychology PSYC 235 Dev Child Psychopathology PSYC 245 Cognitive Psychology PSYC 255 Abnormal Psychology PSYC 258 Developmental Psychology (G-WI) PSYC 265 Psychology of Sex and Gender SOCA 103 Principles of Sociology (G-WI) SOCA 125 Sociology of Families (G-WI) SOCA 210 Sociology of Gender	SOCA103 Principles of Sociology SOCA 105 American Ethnicity SOCA 150 Deviance SOCA160 Issues in Cont Genocide & Mass Violence SOCA204 Social Problems	POLS 202 International Relations POLS205 Women & Politics POLS 251 State & Local Government PSYC 258 Developmental Psychology SOCA 102 Cultural Anthropology

Program Narrative:

-The AAS degree in system administration will prepare students with the technical knowledge and skills necessary to plan, install, monitor and maintain desktop and server systems as well as support enterprise networks. Extensive hands-on lab time with real and current equipment will prepare you for a successful career as a support technician, help desk analyst, system administrator or systems engineer.

Program Learning Outcomes:

- Analyze, diagnose and repair computer and network hardware and software problems
- Describe fundamental network design, protocols and communication
- Configure and maintain LANs and WLANs
- Install, configure and maintain proprietary and open-source servers
- Understand and apply the concepts of IT system administration