

Five Year Plan for BSIT – Software Application Development Track Students are required to work with their academic advisors at both Sinclair & UC to Finalize their degree plan

Courses	Semester 1	Credits
ACC 1210/ACC1100	Introduction to Financial Accounting OR Small Business Accounting	3
CIS 1107	Introduction to Operating Systems	3
BIS 1120	Introduction to Software Applications	3
CIS 1111	Introduction to Problem Solving & Computer Programming	3
CIS 1130	Network Fundamentals	3
		<u>15</u>

	Sinclair Courses
	UC Courses

Courses	Semester 2	Credits
CIS 1140	Information Systems Analysis & Design	3
ENG 1101	English Composition I	3
CIS 2165	Database Management	3
CIS 2550	Linux Operating System	3
MAT 1580	Precalculus	5
		<u>17</u>

Courses	Semester 3	Credits
CIS 2640	Network Security	3
CIS 1350	Web Site Development with HTML & CSS	3
CIS 2510	Microsoft Windows Server Operating System	3
CIS 2212	Java Software Development I	3
MAT 2170	Business Statistics I	4
PD1010	Intro to COOP for CECH	1
		<u>17</u>

Courses	Semester 4	Credits
CIS 2217	Java Software Development II	3
COM 2206	Interpersonal Communication	3
ENG 1201	English Composition II	3
CIS 2222	ASP.NET with C#	3
HUM 1130	Humanity & the Challenge of Technology	3
		<u>15</u>

At the conclusion of their fourth semester, students will earn the Associate of Technical Studies degree from Sinclair and transfer to UC. They will complete the remaining semesters at UC while taking the highlighted Sinclair courses. Students should work with their UC and Sinclair advisors to finalize their degree plan and develop their co-op schedule. Students will be required to complete 3 semesters of co-op experience.

Courses	Semester 5	Credits
IT2030C	Information Security & Assurance	3
IT3048C	Mobile Device Programming	3
MAT2570	Discrete Mathematics	4
IT1051C	Fundamentals of Digital Media	3
IT3060C	Database Management II	3
		<u>16</u>

Courses	Semester 6	Credits
IT2020	Implication of Information Technology	3
IT3046C	Client-side Web programming	3
IT3047C	Web Server App Development	

IT2021	Human Computer Interaction	3
IT1051C	Fundamentals of Digital Media	3
ENG 1131	Business Writing	3
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Courses	Semester 7	Credits
IT5001	Senior Design Project Management I	3
IT5071	Senior Design Software Application Development Technical Practicum I	3
IT4020	Management in IT	3
IT4045C	Enterprise Application Development	3
	Science (BIO, CHE, PHY or GLG)	3
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Courses	Semester 8	Credits
IT5002	Senior Design Project Management II	3
IT5072C	Senior Design Software Application Development Technical Practicum II	3
	History, Fine Art or Social Science	3
	Advisor Approved Elective	3
	Science (BIO, CHE, PHY, or GLG)	3
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Five Year Plan for BSIT – Networking/Systems Track

Students are required to work with their academic advisors at both Sinclair & UC to Finalize their degree plan

Courses	Semester 1	Credits
ACC 1210/ACC1100	Introduction to Financial Accounting OR Small Business Accounting	3
CIS 1107	Introduction to Operating Systems	3
CIS 1111	Introduction to Problem Solving & Computer Programming	3
ENG 1101	English Composition I	3
CIS 1130	Network Fundamentals	3
		15

	Sinclair Courses
	UC Courses

Courses	Semester 2	Credits
CIS 1140	Information Systems Analysis & Design	3
CIS 2550	Linux Operating System	3
CIS 1350	Web Site Development with HTML & CSS	3
CIS 2640	Network Security	3
MAT 1580	Precalculus	5
		17

Courses	Semester 3	Credits
COM 2206	Interpersonal Communication	3
CIS 2510	Microsoft Windows Server Operating System	3
CIS 2212	Java Software Development I	3
ECO 2160	Principles of Macroeconomics	3
MAT 2170	Business Statistics I	4
PD1010	Intro to COOP for CECH	1
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Courses	Semester 4	Credits
CIS 2165	Database Management	3
CIS 2515	Windows Network Infrastructure	3
ENG 1201	English Composition II	3
CIS 2520	Windows Directory Services Administration	3
HUM 1130	Humanity & the Challenge of Technology	3
CIS 2630	Securing a Network Environment	3
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Courses	Semester 5	Credits
IT3037C	Cloud Computing	3
MAT 2570	Discrete Mathematics	4
IT1051C	Fundamentals of Digital Media	3
IT2020	Implication of Information Technology	3
IT3060C	Database Management II	3
		16

Courses	Semester 6	Credits
IT3071C	Network Security	3
IT3038C	Scripting Languages	3
IT2021	Human Computer Interaction	3
IT1051C	Fundamentals of Digital Media	3

ENG 1131	Business Writing	3
		15

Courses	Semester 7	Credits
IT5001	Senior Design Project Management I	3
IT5071	Senior Design Software Application Development Technical Practicum I	3
IT4020	Management in IT	3
IT4037C	Special Topics in Networking	3
	Science (BIO, CHE, PHY or GLG)	3
		15

Courses	Semester 8	Credits
IT5002	Senior Design Project Management II	3
IT5072C	Senior Design Software Application Development Technical Practicum II	3
	Advisor Approved Elective	3
	Science (BIO, CHE, PHY, or GLG)	3
		12
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Five Year Plan for BSIT – Cybersecurity Track @ Sinclair

Students are required to work with their academic advisors at both Sinclair & UC to Finalize their degree plan

Courses	Semester 1	Credits
ACC 1210/ACC1100	Introduction to Financial Accounting OR Small Business Accounting	3
CIS 1107	Introduction to Operating Systems	3
CIS 1111	Introduction to Problem Solving & Computer Programming	3
ENG 1101	English Composition I	3
CIS 1130	Network Fundamentals	3
		<u>15</u>

	Sinclair Courses
	UC Courses

Courses	Semester 2	Credits
CIS 1140	Information Systems Analysis & Design	3
CIS 2550	Linux Operating System	3
CIS 1350	Web Site Development with HTML & CSS	3
CIS 2640	Network Security	3
MAT 1580	Precalculus	5
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Courses	Semester 3	Credits
COM 2206	Interpersonal Communication	3
CIS 2510	Microsoft Windows Server Operating System	3
CIS 2212	Java Software Development I	3
ECO 2160	Principles of Macroeconomics	3
MAT 2170	Business Statistics I	4
PD1010	Intro to COOP for CECH	1
		<u>17</u>

Courses	Semester 4	Credits
CIS 2165	Database Management	3
CIS 2515	Windows Network Infrastructure	3
ENG 1201	English Composition II	3
CIS 2520	Windows Directory Services Administration	3
HUM 1130	Humanity & the Challenge of Technology	3
CIS 2630	Securing a Network Environment	3
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At the conclusion of their fourth semester, students will earn the Associate of Technical Studies degree from Sinclair and transfer to UC. They will complete the remaining semesters at UC while taking the highlighted Sinclair courses. Students should work with their UC and Sinclair advisors to finalize their degree plan and develop their co-op schedule. Students will be required to complete 3 semesters of co-op experience.

Courses	Semester 5	Credits
IT2020	Implication of Information Technology	3
IT3071C	Network Security	3
MAT 2570	Discrete Mathematics	4
IT1051C	Fundamentals of Digital Media	3
IT3060C	Database Management II	3
		<u>16</u>

Courses	Semester 6	Credits
IT3072C	Computer & Network Forensics	3
IT3075C	Network Monitoring & Intrusion Prevention Systems	3
IT2021	Human Computer Interaction	3
IT1051C	Fundamentals of Digital Media	3

ENG 1131	Business Writing	3
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Courses	Semester 7	Credits
IT5001	Senior Design Project Management I	3
IT5071	Senior Design Software Application Development Technical Practicum I	3
IT4020	Management in IT	3
IT4076C	Penetration Testing	3
Science (BIO, CHE, PHY or GLG)		3
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Courses	Semester 8	Credits
IT5002	Senior Design Project Management II	3
IT5072C	Senior Design Software Application Development Technical Practicum II	3
IT4077C	Special Topics in Cybersecurity	3
Science (BIO, CHE, PHY, or GLG)		3
		12
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