

Computer Science-Cybersecurity Emphasis

Bachelor of Science

DEGREE PLAN

Common Core 35 Hours

BIBLICAL LITERACY 6

BIBL 1013	Introduction to Christian Scripture	3
BIBL 1023	Christian Theology and Ethics	3

COMPOSITION AND LITERATURE 6

ENGL 1153	English Composition: Exposition and Argument	3
ENGL 1163	English: Composition and Literature	3

SCIENTIFIC LITERACY AND MATHEMATICS 7

MATH 2013	Analytic Geometry and Calculus I	3
PHYS 2414	College Physics I	4

WELLNESS AND LIFELONG FITNESS 1

PHED 1001	The Wellness Lifestyle	1
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HISTORY AND LITERATURE 12

ENGL 2013 and HIST 2013	European Civilization: Literature and History	3
ENGL 2013 and HIST 2023	Modern West: Literature and History	3

ENGL 2023 and HIST 2023 3

ENGL 2023 and HIST 2023	Modern West: Literature and History	3
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PHILOSOPHY AND FINE ARTS — SELECT ONE COURSE 3

FNAR 2063	Arts and Western Culture	3
FNAR 2163	Arts and Ideas	3
PHIL 1043	Introduction to Philosophy	3

Supportive Core 6 Hours

BSAD 2013	Tech Systems, Communication & Project Management	3
MATH 2103	Discrete Mathematics	3

Computer Science 66 Hours

CIS BUSINESS FOUNDATION 9

BSAD 1113	Introduction to Business	3
MGMT 3203	Introduction to Management	3
MGMT 3453	Project Management	3

CS FOUNDATION 33

CIS 2703	Computer Science I	3
CIS 2713	Introduction to Programming (Python)	3
CIS 2723	Computer Science II	3
CIS 3103	Database Program Development	3
CIS 3623	Introduction to Web Development	3
CIS 3803	Introduction to Data Science	3
CIS 3813	Advanced Data Science	3
CIS 3823	Systems Analysis	3
CIS 4103	Software Development Project I	3
CIS 4203	Software Development Project II	3
MATH 2003	Basic Statistics	3

CYBERSECURITY EMPHASIS 24

CIS 2243	Network Security	3
CIS 3123	Introduction to Networking	3
CIS 3313	Digital Forensic Principles and Practices	3
CIS 3523	Principles of Information Assurance	3
CIS 4013	Computer Systems and Organizations	3
CIS 4023	Operating Systems	3
CIS 4503	Advanced Topics in Cybersecurity	3
MATH 4143	Applied Cryptography	3

Electives 13 Hours

Total Hours

Common Core/Supportive	41
CIS Business Foundation Courses	9
CS Foundation Courses	33
Cybersecurity Emphasis	24
Electives	13

Total hours required for graduation 120

§ All specialized courses must be completed at OBU.

All degrees must include at least 30 upper-level hours. No D's will be accepted in the Area of Concentration and the supportive courses or in courses comprising majors and minors.