



PROGRAM SHEET

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

(BSCSC)

UNIVERSITY CORE CURRICULUM	52 – 53 SCH
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SSK 1201	Study Skills I: Skills for Learning and Research (<i>Pre-requisite: AWT 1001 & ARD 1001</i>)	2 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
SSK 1202	Study Skills II : Critical Reading and Problem Solving (<i>Pre-requisite: SSK 1201, SSK 1203; co-requisites: AWT 1002 and ARD1002</i>)	2 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
SSK 1203	Computer Skills for Independent Learning	2 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
SSK 1204	Applied Independent Learning Methods (<i>Pre-requisite: SSK 1201; SSK 1203; co-requisites AWT 1002 and ARD1002</i>)	2 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
SSK 1205	Inter-personal skills and Social interaction in an Academic Context (<i>co-requisite: ALS 1002</i>)	2 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
ARB 13xx series	Appropriate placement to be determined by student's entry level	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
FRN 12xx series	Appropriate placement to be determined by student's entry level	2 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
FRN or ARB	Appropriate placement to be determined by student's entry level	2-3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
BIO 1401 or BIO 1402 CHE 1401	Principles of Biology , or Environmental Biology, or General Chemistry I	4 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
CSC 1401	Computer Programming	4 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
COM 1301	Communication through Speaking (<i>Pre-requisite : ENG 1301, SSK1205 and SSK1202</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
ENG 1301	English Composition I (<i>Pre-requisite: Pass all Language Center modules</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
ENG 1302	English Composition II (<i>Pre-requisite : ENG 1301, SSK1202 and SSK1204</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
HIS 1301 or HIS 2301 or PSC2301	History of the Arab World (<i>Pre-requisite : ENG 1301 and SSK1202</i>) or Contemporary World History or Comparative Political System (<i>Pre-requisite : ENG 1302</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
HUM 3301 or HUM 3302 or HUM 3306 or LIT 2301, or PHI 2301	Introduction to Islamic Art and Architecture or Introduction to the Study of Islamic Civilization or Comparative Religion (<i>Pre-requisite: Junior standing</i>), Major Works in World Literature (<i>Pre-requisite: Sophomore classification and ENG 1302</i>) or Philosophical Thought (<i>Pre-requisite: ENG 1302</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
MTH 1304	Discrete Mathematics for Engineers	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
PED 1201	Physical Education: Fitness for Living	2 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
PHY 1401	Physics I (<i>Pre-requisite: MTH 1303</i>)	4 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
SOC1301 or PSY 1301 or SSC 1310	Introduction to Sociology, or Introduction to Psychology	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>

SCHOOL CORE	26 SCH
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EGR 4300	Internship (<i>Pre-requisite : Senior standing</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
EGR 4402	Capstone Design (<i>To be taken during the last regular semester</i>)	4 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
EGR 2302	Engineering Economics (<i>Pre-requisite : MTH 1303</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
EGR 3331	Digital Design (<i>Pre-or- co-requisite : PHY 1402</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
MTH1303	Differencial & Integral Calculus	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
MTH 2301	Multivariable Calculus (<i>Pre-requisite : MTH 1303</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
MTH 3301	Probability & Statistics fo Engineers (<i>Pre-requisite : MTH 2301</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
PHY 1402	Physics II (<i>Pre-requisite : PHY 1401</i>)	4 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>

COMPUTER SCIENCE MAJOR	36 SCH
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Required courses:		27 SCH	
CSC 2302	Data Structures (<i>Pre-requisite : CSC 1401; co-requisite: MTH 1304 highly recommended</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
CSC 2303	Advanced Programming/Object-Oriented programming (<i>Pre-requisite : CSC 2302</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
CSC 2304	Computer Architecture (<i>Pre-requisite : CSC 2302 and EG R3331</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
CSC 3315	Languages and Compilers (<i>Pre-requisite : CSC 2303</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
CSC 3323	Algorithm Analysis (<i>Pre-requisite : CSC 2303</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
CSC 3324	Software Engineering I (<i>Pre-requisite : CSC 2302</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>

CSC 3326	Database Systems (<i>Pre-requisite : CSC 3324</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
CSC 3351	Operating Systems (<i>Pre-requisite : CSC 2303 and CSC 2304</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
CSC 3352	Computer Communication (<i>Pre-requisite : CSC 2303 and CSC 2304</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>

ADVANCED COURSES: (SELECT 3 ONLY)

9 SCH

CSC 3309	Artificial Intelligence (<i>Pre-requisite : CSC 2303 and Junior Standing</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
CSC 3325	Software Engineering II (<i>Pre-requisite : CSC 3324</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
CSC 3327	Internet Technologies (<i>Pre-requisite : CSC 3326</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
CSC 3328	Embedded Systems (<i>Pre-requisite : CSC 3351</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
CSC 3341	Computer Graphics (<i>Pre-requisite : CSC 2303 and Junior Standing</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
CSC 3353	Computer Networks (<i>Pre-requisite : CSC 3352</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
CSC 3354	Distributed Systems (<i>Pre-requisite : CSC 3351 and CSC 3352</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
CSC 3355	Computer Security (<i>Pre-requisite : CSC 2303 and senior standing</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>

MINORS	15-18 SCH
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GENERAL ENGINEERING

17-18 SCH

Required courses:

8 SCH

CHE 1402	General Chemistry II (<i>Pre-requisite : CHE 1401</i>)	4 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
EGR 2402	Electrical Circuits (<i>Pre-requisite :PHY 1402 & MTH 2304</i>)	4 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
In addition, select 3 courses of the following:			
9-10 SCH			
EGR 3304	Materials Science (<i>Pre-requisite : CHE 1402 and PHY 1402</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
EGR 3306	Engineering Instrumentation (<i>Pre-requisite : EGR 2402</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
EGR 3308	Thermal Engineering (<i>Pre-requisite : PHY 1402</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
EGR 3402	Statics and Dynamics (<i>Pre-requisite : MTH 2301 and PHY 1401</i>)	4 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>

BUSINESS ADMINISTRATION

15 SCH

Required Courses :

9 SCH

ACC 2301	Accounting Principles II (<i>Pre-requisite: MTH 1303, or MTH 1304</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
FIN 3301	Business and Corporate Finance (<i>Pre-requisite : ACC 2302 and ECO 2302; or ACC 2301 and EGR 2302</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
MGT 3301	Principles of Management (<i>Pre-requisite : ACC 2302 and ECO 2302; or ACC 2301 and EGR 2302</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>

In addition, students must choose any two out of the following courses:

6 SCH

ACC 2302	Accounting Principles II(<i>Pre-requisite: ACC 2301</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
MGT 3303	Operations Management (<i>Pre-requisite: MGT 3301 and either GBU 3401 or MTH 3301</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
GBU4308	Net-Economics and E-Business (<i>Pre-requisite: Senior standing</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
GBU 3401	Advanced Quantitative Methods in Business(<i>Pre-requisite : junior Standing and GBU 3301; or MTH 3301</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
MGT 3302	Entrepreneurship (<i>Pre-requisite : MGT 3301 & MKT 3301 & FIN 3301</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
MKT 3301	Principles of Marketing(<i>Pre-requisite : ACC 2301 and EGR 2302</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
MKT 4304	Marketing Research(<i>Pre-requisite : MKT 3301 and one of the following: GBU 3401, SSC 2401, MTH3301</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
MIS 3302	Managing the Information Resource(<i>Pre-requisite : MGT 3301 and MIS 3301 or Special Permission</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
MKT4305	Marketing Management (<i>Pre-requisite : MGT 3301 & MKT 3302 or MKT 3303</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
MGT 4311	E-Marketing (<i>Pre-requisite : senior standing</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>

HUMAN RESOURCE DEVELOPMENT**18 SCH****Required courses:****9 SCH**

HRD 2300	Introduction to Human Resources Development	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
HRD 3302	Ethics in Professional Contexts (<i>Pre-requisite: Junior Classification</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
HRD 3301	Human Capital Management	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
HRD 3303 or PSY 3302	Training & Development (<i>Pre-requisite: HRD 2300</i>) or Social/Organizational Psychology (<i>Pre-requisite: PSY1301 or special permission</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
HRD4303	Leadership and Management Development (<i>Pre-requisites: PSY 3302 or MGT4304</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
HRD 4304	Consulting for HRD(<i>Pre-requisites: HRD 2300 and HRD 3302 or permission of the instructor</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>

COMMUNICATION STUDIES**18 SCH**

Students selecting the Minor in Communication Studies must complete 18 SCH from the following courses. Please note the COM 2301 Professional Communication Skills is a prerequisite for most Communication courses and thus **non-SHSS** students with a Minor in Communication Studies must take COM 2301 as an elective in their program.

Required courses:**12 SCH**

COM 1302	Introduction to Mass Communication (<i>Pre-requisite: ENG 1301</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
COM2301or COM3310	Advanced Speech & Multimedia (for nonshss) <i>Pre-requisite: COM 1301</i> or Intro. To Promotional Communication (for SHSS) (<i>Pre-requisite: COM 2301</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
COM 2303	International Communication (<i>Pre-requisite: COM 1302</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
COM 3425	Technical Communication (<i>Pre-requisite: COM 2301</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>

In addition, students must complete any 2 of the following courses:

COM 2304	Introduction to Video and Film Production(<i> Pre-requisites: COM 1302</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
COM 3310	Promotional Communication(<i> Pre-requisite: COM 1302</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
COM 3321	Mass Media and Society(<i>Pre-requisite: COM 1302 , Junior Standing</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
COM 3322 or 3323 or 3324	Writing for the Media (in English, French or Arabic) (<i>Pre-requisite ENG 1302, COM 1302 and appropriate language skills as determined by instructor</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
COM 3326	Visual Communication(<i> Pre-requisite: COM 2301</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
COM 3327	Persuasion (<i>Pre-requisite: Junior classification and COM 1303</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
COM 3328	Mass Media Text Analysis (<i>Pre-requisite: COM 3320</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
COM 3329	Screen Studies (<i>Pre-requisite: Junior classification, COM 1302</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
COM 3399	Special Topics in Communication (<i>Pre-requisite: Junior classification</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
COM 4301	Public Relations Communication (<i>Pre-requisite: Junior classification</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
COM 4302	Advanced Video and Film Production (<i>Pre-requisite: Junior classification and COM 2304</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
COM 4304	Media and Development (<i>Pre-requisites: Senior Classification, either COM 2304 or COM 3310</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>

INTERNATIONAL STUDIES**18 SCH****Required Courses:****3 SCH**

INS 3301	Theories & Models of International Relations (<i>Pre-requisite : PSC 2301</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
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In addition, students must complete any 3 of the following courses:**9 SCH**

ECO 2310*	Introduction to International Economics	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
GEO 1301	Introduction to Geography	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
HIS 3301	Twentieth Century International History (<i>Pre-requisite : HIS 1301 or HIS 2301</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
INS 3302	International Law & Organizations (<i>Pre-requisite : INS 3301</i>)	3 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>

In addition to two other courses from within the International Studies Program	6 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
		Met <input type="checkbox"/> not Met <input type="checkbox"/>

Note: *Note: ECO 2310 is only open to non Business Administration students.

Minors may require students to use elective courses to satisfy minor requirements beyond 15 SCH (including prerequisites for minor courses).

BSCS students may receive a second minor, in mathematics, by completing a total of 5 courses selected from the list: MTH 1304, 1303, 2301, 2303, 2304, 3301.

ELECTIVES	9 SCH	Met <input type="checkbox"/> not Met <input type="checkbox"/>
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Three electives will be chosen from university undergraduate courses in collaboration with, and with approval of, the academic advisor and academic coordinator. The following courses are not acceptable as BSCSC electives: CHE1400, CSC1400, MTH1399, GBU 3301, MTH1301, and PHY1400. Graduate courses in the major may be taken as electives after special permission from the Dean.

TOTAL	138-139 SCH
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NB/ The combined BS/MS program allows qualified CSC students to pass directly from the BS to the MS in Computer Science/ Computer Networks/ Software Engineering (for more details refer to the catalog).