

**Al Akhawayn University in Ifrane
School of Science & Engineering**

**POSSIBLE COURSE SEQUENCE
Bachelor of Science in Computer Sciences (BSCS)
(8 semesters)**

Semester 1 (15 SCH)
Eng 1301 English Composition I Csc 1401 Computer Programming Mth 1303 Differential & Integral Calculus Ssk 1211 Study Skills ① MTH1304 Discrete Mathematics for Engineering

Semester 2 (16 SCH)
Arb 13xx Arabic or Frn x3xx French ② Che 1401 General Chemistry I / Bio 1401/02 Csc 2302 Data Structures Phy 1401 Physics I Ssk 1212 Study Skills ①

Semester 3 (15 SCH)
Csc 2303 Advanced Prog./Object-Oriented Programming Egr 3331 Digital Design Mth 2301 Multivariable Calculus Phy 1402 Physics II Ssk 1213 Study Skills ①

Semester 4 (15 SCH) (possible semester for exchange)
Arb 13xx Arabic or Frn x3xx French ② Arb/Frn Minor 1 Csc 2304 Computer Architecture Csc 2315 Comp. Lang Eng 2303 Technical Writing

Semester 5 (18 SCH) (possible semester for exchange)
Csc 3323 Algorithm Analysis Csc 3352 Computer Communication Lit 230x, Hum 330x, or Phi 2301 ④ Minor 2 Com 1301 Com. Speaking Elective

Semester 6 (18 SCH)
Csc 3324 Software Engineering I Hum 3305, Hum 3306, or Phi 230x ⑦ Mth 3301 Probability and Statistics for Engineers Soc 1301, Psy 1301, SSC 1310, GEO1301 ⑧ Minor 3 Egr 2302 Engineering Economics

Semester 7 (18 SCH)
Csc 3326 Database Systems Csc 3351 Operating Systems Minor 4 His x301 or Psc 2301 History or Political Science ③ CSC Adv 1 ⑥ Elective

Semester 8 (16 SCH)
Csc Adv 2 ⑥ Csc Adv 3 ⑥ Egr 4402 Capstone Design Minor 5 Elective

Summer Session (3 SCH)
Egr 4300 Internship ⑤

TOTAL SCH: 134

Notes:

- ① Ssk121x courses should be taken in the first semesters.
- ② Arb 13xx or Frn x3xx: Registration by placement tests only.
- ③ His 1301, His 2301, **or** Psc 2301.
- ④ Lit 2301, Hum 3301, Hum 3302, Hum 3303 (Arabic version), **or** Phi 2301.
- ⑤ Two options: (1) Internship in the summer, **or** (2) 7-SCH Internship for 4-6 months: Internship + Capstone.
- ⑥ Csc Adv: Csc 3309, 3325, 3327, 3328, 3341, 3353, 3354, **or** 3355
- ⑦ Select one course: Hum 3305, Hum 3306, **or** Phi 230x
- ⑧ Select one course: Soc 1301, Psy 1301, SSC 1310 or GEO1301

This sequence is subject to change at any time by appropriate action of the University.

Al Akhawayn University in Ifrane
School of Science & Engineering

POSSIBLE COURSE SEQUENCE
Bachelor of Science in Engineering & Management Science (BSEMS)
(8 semesters)

<p>Semester 1 (16 SCH)</p> <p>Che 1401 General Chemistry I Csc 1401 Computer Programming Eng 1301 English Composition I Mth 1303 Differential & Integral Calculus Ssk 1211 Study Skills ①</p>	<p>Semester 2 (15 SCH)</p> <p>Arb 13xx Arabic or Frn x3xx French ② Csc 2302 Data Structures Mth 2301 Multivariable Calculus Phy 1401 Physics I Ssk 1212 Study Skills ①</p>
<p>Semester 3 (18 SCH)</p> <p>Acc 2301 Accounting Principles I Csc 2303 Advanced Prog./Object-Oriented Programming Eng 2303 Technical Writing Phy 1402 Physics II Ssk 1213 Study Skills ① Com 1301 Com. Speaking</p>	<p>Semester 4 (16 SCH) (semester suitable for exchange)</p> <p>Che 1402 General Chemistry II Egr 2302 Engineering Economics Egr 3331 Digital Design His x301 or Psc 2301 History or Political Science ③ Mth 2303 Linear Algebra & Matrix Theory</p>
<p>Semester 5 (16 SCH) (semester suitable for exchange)</p> <p>Arb 13xx Arabic / Frn x3xx French ② Frn/Arb Egr 2402 Electrical Circuits Lit 230x, Hum 330x, or Phi 2301 ④ Mgt 3301 Principles of Management Mth 2304 Differential Equations</p>	<p>Semester 6 (18 SCH)</p> <p>Csc 3324 Software Engineering I Egr 3304 Materials Science Fin 3301 Business and Corporate Finance Hum 3305, Hum 3306, or Phi 230x ⑦ Mth 3301 Probability and Statistics for Engineers Soc 1301, Psy 1301, SSC 1310, GEO1301 ⑧</p>
<p>Semester 7 (15 SCH)</p> <p>Csc 3326 Database Systems Egr 3306 Engineering Instrumentation I Egr 3308 Thermal Engineering Mgt 3303 Operations Management Elective 1</p>	<p>Semester 8 (17 SCH)</p> <p>Csc 3323 or 3325 Algorithm Analysis or Software Engineering II ⑥ Egr 3402 Statics & Dynamics Egr 4402 Capstone Design Gbu 3401 Advanced Quantitative Methods in Business Elective 2</p>
<p>Summer Session (3 SCH)</p> <p>Egr 4300 Internship ⑤</p>	

TOTAL SCH: 134

Notes:

- ① Ssk121x courses should be taken in the first semesters.
- ② Arb 13xx or Frn x3xx: Registration by placement tests only.
- ③ His 1301, His 2301, **or** Psc 2301.
- ④ Lit 2301, Hum 3301, Hum 3302, Hum 3303 (Arabic version), **or** Phi 2301.
- ⑤ Two options: (1) Internship in the summer, **or** (2) 7-SCH Internship for 4-6 months: Internship + Capstone.
- ⑥ Select one course: Csc 3323 **or** 3325.
- ⑦ Select one course: Hum 3305, Hum 3306, **or** Phi 230x
- ⑧ Select one course: Soc 1301, Psy 1301, SSC 1310 or GEO1301

This sequence is subject to change at any time by appropriate action of the University.

Al Akhawayn University in Ifrane
School of Science & Engineering

POSSIBLE COURSE SEQUENCE
Bachelor of Science in General Engineering (BSGE)
(8 semesters)

<p>Semester 1 (15 SCH)</p> <p>Eng 1301 English Composition I Csc 1401 Computer Programming Mth 1303 Differential & Integral Calculus Ssk 1211 Study Skills ① MTH1304 Discrete Mathematics for Engineering</p>	<p>Semester 2 (16 SCH)</p> <p>Arb 13xx Arabic <u>or</u> Frn x3xx French ② Csc 2302 Data Structures Bio 1401/2 Principles of Biology I or II Phy 1401 Physics I Ssk 1212 Study Skills ①</p>
<p>Semester 3 (15 SCH)</p> <p>Csc 2303 Advanced Prog./Object-Oriented Programming Egr 3331 Digital Design Mth 2301 Multivariable Calculus Phy 1402 Physics II Ssk 1213 Study Skills ①</p>	<p>Semester 4 (16 SCH) (suitable semester for exchange)</p> <p>Arb 13xx Arabic <u>or</u> Frn x3xx French ② Arb/Frn Che 1401 General Chemistry I Mth 2303 Linear Algebra & Matrix Theory Eng 2303 Technical Writing CSC 2304 Computer Architecture</p>
<p>Semester 5 (17 SCH) (suitable semester for exchange)</p> <p>Che 1402 General Chemistry II Egr 2402 Electrical Circuits Lit 230x, Hum 330x, <u>or</u> Phi 2301 ④ Mth 2304 Differential Equations Csc 3352 Computer Communication</p>	<p>Semester 6 (18 SCH)</p> <p>Csc 3324 Software Engineering I Egr 2302 Engineering Economics Hum 3305, Hum 3306, <u>or</u> Phi 230x ⑦ Mth 3301 Probability and Statistics for Engineers Soc 1301, Psy 1301, SSC 1310, GEO1301 ⑧ Com 1301 Communication through Speaking</p>
<p>Semester 7 (18 SCH)</p> <p>Csc 3326 Database Systems Egr 3306 Engineering Instrumentation I Egr 3308 Thermal Engineering His x301 <u>or</u> Psc 2301 History or Political Science ③ CSC 3351 Operating Systems CSC Adv 1 ⑥</p>	<p>Semester 8 (17 SCH)</p> <p>CSC Adv 2 ⑥ Egr 3402 Statics & Dynamics Egr 4402 Capstone Design Egr 3304 Materials Science Elective</p>
<p>Summer Session (3 SCH)</p> <p>Egr 4300 Internship ⑤</p>	

TOTAL SCH: 135

Notes:

- ① Ssk121x courses should be taken in the first semesters.
- ② Arb 13xx or Frn x3xx: Registration by placement tests only.
- ③ His 1301, His 2301, or Psc 2301.
- ④ Lit 2301, Hum 3301, Hum 3302, Hum 3303 (Arabic version), or Phi 2301.
- ⑤ Two options: (1) Internship in the summer, or (2) 7-SCH Internship for 4-6 months: Internship + Capstone.
- ⑥ Csc Adv: Csc 3309, 3325, 3327, 3328, 3341, 3353, 3354, or 3355
- ⑦ Select one course: Hum 3305, Hum 3306, or Phi 230x
- ⑧ Select one course: Soc 1301, Psy 1301, SSC 1310 or GEO1301

This sequence is subject to change at any time by appropriate action of the University.