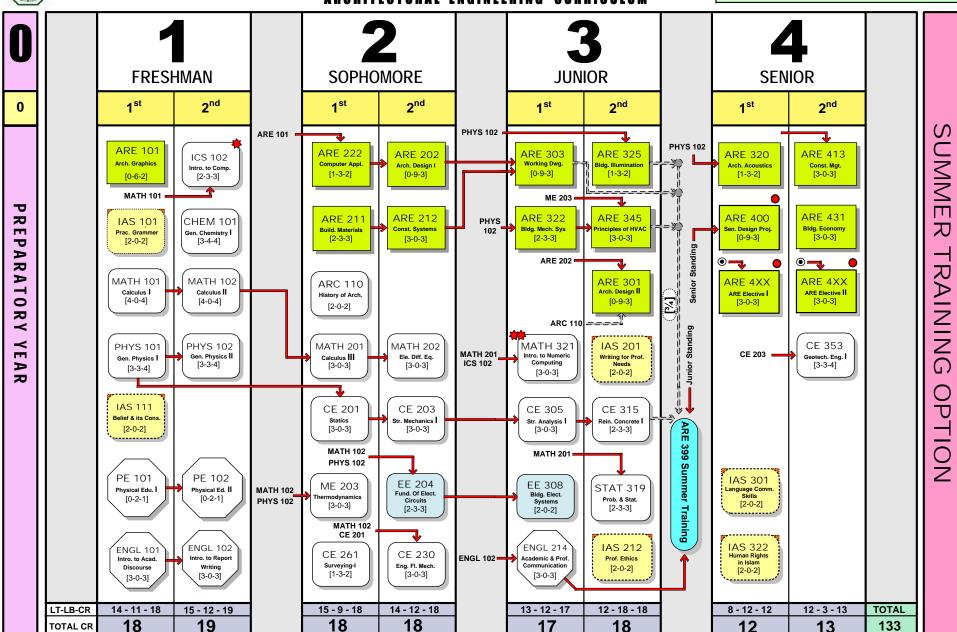# PROGRAM COURSE PLAN (Starting Semester 10-1)

COLLEGE OF ENVIRONMENTAL DESIGN
KFUPM Dhahran

Bachelor of Science
ARCHITECTURAL ENGINEERING CURRICULUM

Student Name: ....
Student ID: ....

0 — PREPARATORY YEAR (0)

1 — FRESHMAN

1st
- **ARE 101** — Arch. Graphics [0-6-2]
- **IAS 101** — Prac. Grammer [2-0-2]
- **MATH 101** — Calculus I [4-0-4]
- **PHYS 101** — Gen. Physics I [3-3-4]
- **IAS 111** — Belief & its Cons. [2-0-2]
- **PE 101** — Physical Edu. I [0-2-1]
- **ENGL 101** — Intro. to Acad. Discourse [3-0-3]

2nd
- **ICS 102** — Intro. to Comp. [2-3-3]
- **CHEM 101** — Gen. Chemistry I [3-4-4]
- **MATH 102** — Calculus II [4-0-4]
- **PHYS 102** — Gen. Physics II [3-3-4]
- **PE 102** — Physical Ed. II [0-2-1]
- **ENGL 102** — Intro. to Report Writing [3-0-3]

2 — SOPHOMORE

1st
- **ARE 222** — Computer Appl. [1-3-2]
- **ARE 211** — Build. Materials [2-3-3]
- **ARC 110** — History of Arch. [2-0-2]
- **MATH 201** — Calculus III [3-0-3]
- **CE 201** — Statics [3-0-3]
- **ME 203** — Thermodynamics [3-0-3]
- **CE 261** — Surveying-I [1-3-2]

2nd
- **ARE 202** — Arch. Design I [0-9-3]
- **ARE 212** — Const. Systems [3-0-3]
- **MATH 202** — Ele. Diff. Eq. [3-0-3]
- **CE 203** — Str. Mechanics I [3-0-3]
- **EE 204** — Fund. Of Elect. Circuits [2-3-3]
- **CE 230** — Eng. Fl. Mech. [3-0-3]

3 — JUNIOR

1st
- **ARE 303** — Working Dwg. [0-9-3]
- **ARE 322** — Bldg. Mech. Sys [2-3-3]
- **MATH 321** — Intro. to Numeric Computing [3-0-3]
- **CE 305** — Str. Analysis I [3-0-3]
- **EE 308** — Bldg. Elect. Systems [2-0-2]
- **ENGL 214** — Academic & Prof. Communication [3-0-3]

2nd
- **ARE 325** — Bldg. Illumination [1-3-2]
- **ARE 345** — Principles of HVAC [3-0-3]
- **ARE 301** — Arch. Design II [0-9-3]
- **IAS 201** — Writing for Prof. Needs [2-0-2]
- **CE 315** — Rein. Concrete I [2-3-3]
- **STAT 319** — Prob. & Stat. [2-3-3]
- **IAS 212** — Prof. Ethics [2-0-2]

ARE 399 Summer Training (Junior Standing / Senior Standing)

4 — SENIOR

1st
- **ARE 320** — Arch. Acoustics [1-3-2]
- **ARE 400** — Sen. Design Proj. [0-9-3]
- **ARE 4XX** — ARE Elective I [3-0-3]
- **IAS 301** — Language Comm. Skills [2-0-2]
- **IAS 322** — Human Rights in Islam [2-0-2]

2nd
- **ARE 413** — Const. Mgt. [3-0-3]
- **ARE 431** — Bldg. Economy [3-0-3]
- **ARE 4XX** — ARE Elective II [3-0-3]
- **CE 353** — Geotech. Eng. I [3-3-4]

SUMMER TRAINING OPTION

LT-LB-CR	14-11-18	15-12-19	15-9-18	14-12-18	13-12-17	12-18-18	8-12-12	12-3-13	TOTAL
TOTAL CR	18	19	18	18	17	18	12	13	**133**

Prerequisite arrows (indicated): ARE 101 → ARE 222; ARE 101 → ARE 202; MATH 101 → ...; PHYS 102 → ARE 303/ARE 325; ME 203 → ...; PHYS 102 → ARE 322/ARE 345; ARE 202 → ARE 301; ARC 110 → ...; MATH 201, ICS 102 → MATH 321; MATH 201 → STAT 319; MATH 102, PHYS 102 → EE 204; MATH 102, CE 201 → CE 230; ENGL 102 → ENGL 214; CE 203 → CE 353

Legend:
- ☐ Courses that are not part of the Coop option.
- ☐ (dashed) Courses that are frequently offered during the summer.
- ⇢ Departmental Requirements (any 3 courses out of 4 as indicated)
- ★ ICS 101, 102, or 103. ICS 103 is recommended.
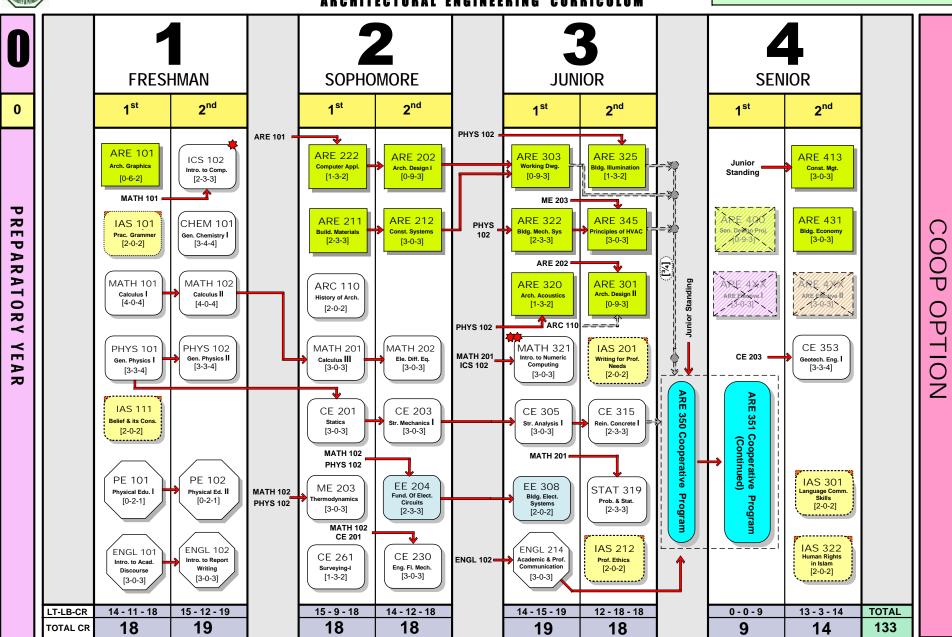- ★★ MATH 321 and SE 301 are equivalent, only one can be taken for credit.

Please note that all ARE courses are offered once a year, therefore, they should be completed on time as indicated in the Program Course Plan

[Last Revised on April 07th 2010]

COLLEGE OF ENVIRONMENTAL DESIGN
KFUPM Dhahran

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ARCHITECTURAL ENGINEERING CURRICULUM

Student Name: ....
Student ID: ....

0 — **PREPARATORY YEAR**

COOP OPTION

1 — FRESHMAN

1st
- **ARE 101** Arch. Graphics [0-6-2]
- **IAS 101** Prac. Grammer [2-0-2]
- **MATH 101** Calculus I [4-0-4]
- **PHYS 101** Gen. Physics I [3-3-4]
- **IAS 111** Belief & its Cons. [2-0-2]
- **PE 101** Physical Edu. I [0-2-1]
- **ENGL 101** Intro. to Acad. Discourse [3-0-3]

LT-LB-CR: 14 - 11 - 18
TOTAL CR: **18**

2nd
- **ICS 102** Intro. to Comp. [2-3-3]
- **CHEM 101** Gen. Chemistry I [3-4-4]
- **MATH 102** Calculus II [4-0-4]
- **PHYS 102** Gen. Physics II [3-3-4]
- **PE 102** Physical Ed. II [0-2-1]
- **ENGL 102** Intro. to Report Writing [3-0-3]

LT-LB-CR: 15 - 12 - 19
TOTAL CR: **19**

2 — SOPHOMORE

1st
- **ARE 222** Computer Appl. [1-3-2]
- **ARE 211** Build. Materials [2-3-3]
- **ARC 110** History of Arch. [2-0-2]
- **MATH 201** Calculus III [3-0-3]
- **CE 201** Statics [3-0-3]
- **ME 203** Thermodynamics [3-0-3]
- **CE 261** Surveying-I [1-3-2]

LT-LB-CR: 15 - 9 - 18
TOTAL CR: **18**

2nd
- **ARE 202** Arch. Design I [0-9-3]
- **ARE 212** Const. Systems [3-0-3]
- **MATH 202** Ele. Diff. Eq. [3-0-3]
- **CE 203** Str. Mechanics I [3-0-3]
- **EE 204** Fund. Of Elect. Circuits [2-3-3]
- **CE 230** Eng. Fl. Mech. [3-0-3]

LT-LB-CR: 14 - 12 - 18
TOTAL CR: **18**

3 — JUNIOR

1st
- **ARE 303** Working Dwg. [0-9-3]
- **ARE 322** Bldg. Mech. Sys [2-3-3]
- **ARE 320** Arch. Acoustics [1-3-2]
- **MATH 321** Intro. to Numeric Computing [3-0-3]
- **CE 305** Str. Analysis I [3-0-3]
- **EE 308** Bldg. Elect. Systems [2-0-2]
- **ENGL 214** Academic & Prof. Communication [3-0-3]

LT-LB-CR: 14 - 15 - 19
TOTAL CR: **19**

2nd
- **ARE 325** Bldg. Illumination [1-3-2]
- **ARE 345** Principles of HVAC [3-0-3]
- **ARE 301** Arch. Design II [0-9-3]
- **IAS 201** Writing for Prof. Needs [2-0-2]
- **CE 315** Rein. Concrete I [2-3-3]
- **STAT 319** Prob. & Stat. [2-3-3]
- **IAS 212** Prof. Ethics [2-0-2]

LT-LB-CR: 12 - 18 - 18
TOTAL CR: **18**

4 — SENIOR

1st
- Junior Standing
- **ARE 400** Sen. Design Proj. [0-9-3]
- **ARE 4xx** ARE Elective I [3-0-3]
- **ARE 350 Cooperative Program**

LT-LB-CR: 0 - 0 - 9
TOTAL CR: **9**

2nd
- **ARE 413** Const. Mgt. [3-0-3]
- **ARE 431** Bldg. Economy [3-0-3]
- **ARE 4xx** ARE Elective II [3-0-3]
- **CE 353** Geotech. Eng. I [3-3-4]
- **IAS 301** Language Comm. Skills [2-0-2]
- **IAS 322** Human Rights in Islam [2-0-2]
- **ARE 351 Cooperative Program (Continued)**

LT-LB-CR: 13 - 3 - 14
TOTAL CR: **14**

TOTAL: 133

Prerequisite arrows / notes: ARE 101 → ; PHYS 102 → ; MATH 101 → ; ME 203 → ; ARE 202 → ; PHYS 102 → ARC 110 ; MATH 201 / ICS 102 → ; ENGL 102 → ; MATH 102 / PHYS 102 → ; CE 203 → ; ME 203 → ; CE 201 → ; Junior Standing ; CE 203 → ; MATH 201 →

Legend
- Courses that are part of the Summer Training option.
- Courses that are frequently offered during the summer.
- ⇢ Departmental Requirements (any 3 courses out of 4 as indicated)
- ★ ICS 101, 102, or 103. ICS 103 is recommended.
- ★★ MATH 321 and SE 301 are equivalent, only one can be taken for credit.

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[Last Revised on April 07th 2010]