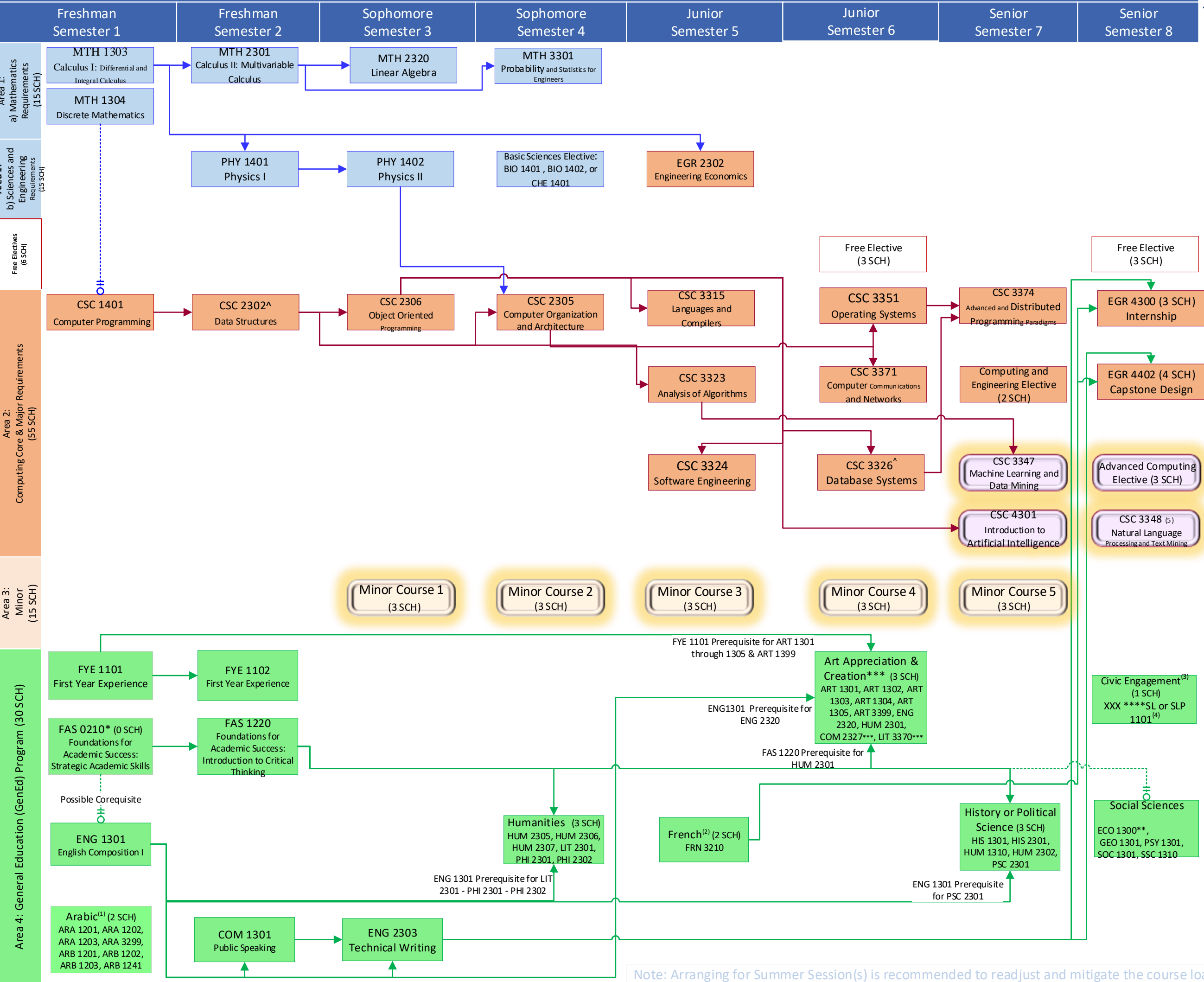


BSAIR Course Sequence (136 SCH) | Catalog 2019-2021 | B.S. in Artificial Intelligence and Robotization (BSAIR)

BSAIR Brochure

BSAIR Tabular Sequence

Last updated on July 18, 2020



Areas

Area 1: Mathematics, Sciences and Engineering (30 SCH)

Free Elective (6 SCH)

Area 2: a) Computing Core & Elective (43 SCH)

Area 2: b) Computer Science Major (12 SCH)

Area 3: Minor (15 SCH)

Area 4: General Education (30 SCH)

Possible Advanced Computing Elective (3 SCH) (5)

CSC 4302 Artificial Intelligence for Robotics
CSC 4303 Artificial Neural Networks
CSC 4304 Software Agents and Robotization
CSC 4351 Statistical Analysis

Possible Computing and Engineering Elective (2 SCH) (5)

EGR 3204 Robotics Competitions
CSC 3261 Computer Programming Competitions
EGR 3203 Applied Undergraduate Research

Arrow Key

Prerequisite: The box from which a line originates indicates the pre-requisite for the destination box

Corequisite: two courses could be taken together during the same semester

○ Several of the topics within the GenEd Program (41 SCH) are met by required courses in Areas 1, 2, and 3 of the BS programs in SSE (mathematics, computer science, basic science). The remaining topical areas (30 SCH) that satisfy the GenEd are listed in Area 4.

* FAS 0210 is a non-degree credit-bearing course, and it is a graduation requirement. It counts for 2 non-degree credits, i.e. they do not count towards the degree. However, this course can be waived upon a successful test-out.

** ECO 1300: requires no Course Prerequisites/ Co-Requisites (Catalog 2017-2019 p. 205). This course is designed only for students that are NOT majoring or minoring in Business Administration or Human Resource development. Therefore, it cannot serve as a substitute for ECO 2301 or ECO 2302. However, students that are eligible to take this course may also take it as an elective course (Catalog 2017-2019 p. 120).

- *** Art Appreciation & Creation:
- ART 1301 “Music & Vocal Performance”
 - ART 1302 “Dance & Choreography”
 - ART 1303 “Painting & Sculpture”
 - ART 1304 “Drama & Theater”
 - ART 1305 “Art Appreciation”
 - ART 1399 “Special Topics in Arts:”
 - ENG 2320 “Creative Writing”
 - HUM 2301 “Islamic Art & Architecture”
 - COM 2327 “Art & Design Production”: requires COM 2403 as Course Prerequisite/ Co-Requisite
 - LIT 3370 “Aesthetics”: requires Junior Classification

- ⁽¹⁾ All degree-seeking students must earn 2 SCH of Arabic language by taking one course from the list. Arabic courses are categorized depending on the student’s high school diploma and prior Arabic proficiency level.
- ☒ Holders of the Moroccan baccalaureate take ARB 1241 without placement.
- ☒ Holders of a cultural mission baccalaureate in Morocco (French, Spanish, etc.) take one ARB course based on placement test results.
- ☒ Holders of international high school degrees with no prior Arabic language instruction take one ARA course based on placement test results.

⁽²⁾ Holders of the Moroccan baccalaureate must earn 2 SCH of French language by taking FRN 3210 as an exit level. Every newly admitted student is required to take a free international official French placement test TEF (Test d’Evaluation de Français) in order to determine how many courses in French he/she needs to take and at what level. If based on TEF placement test results students have to take additional French courses as pre-requisites, the latter will not count towards the degree. Students may not take French in their first semester of study, and they can also be exempted upon earning a minimum of C1 in TEF and 16 in GAT. International students with no prior knowledge of French may choose to take Spanish to satisfy GenEd language requirements.

⁽³⁾ A course with an SL component must be taken as co-requisites. Failing the course will de facto result in failing the SL component, too. Failing the SL component will result in an NRP in the SL component only. Students who fail the SL component must enroll in another course from their degree plan with an SL component in the subsequent semesters.

⁽⁴⁾ In case no subsequent course in the student’s degree plan is offered with an SL (Service Learning) component, he/she must submit an SL proposal to the SLP Committee and enroll in SLP 1101.

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CSC 2302 Data Structures: Prerequisite: CSC 1401. Co-requisite: MTH 1304 (required for BSCSC major and recommended for other majors)

**** EGR 4300 may be combined with EGR 4402 for 7 SCH with approval (Catalog 2017-2019, page 214).

- (5) Pre-Requisites for Elective Courses:
- CSC 3204 (Robotics Competition): Junior standing
 - CSC 3261 (Programming Challenges): CSC 2302

 - CSC 3348 (Natural Language Processing and Text Mining): Senior standing

 - CSC 4302 (Artificial Intelligence for Robotics): Senior standing
 - CSC 4303 (Artificial Neural Networks): Senior standing
 - CSC 4304 (Software Agents and Robotization): Senior standing
 - CSC 4351 (Statistical Analysis): MTH 3301

 - EGR 3203 (Applied Undergraduate Research): Junior standing