CREATE TABLE Divisions (division\_id INT AUTO\_INCREMENT, name VARCHAR(20) NOT NULL, PRIMARY KEY (division\_id)) ENGINE = INNODB;

CREATE TABLE Departments (department\_id INT AUTO\_INCREMENT, abbreviation VARCHAR(10) NOT NULL, name VARCHAR(20) NOT NULL, division\_id INT, PRIMARY KEY (department\_id), FOREIGN KEY (division\_id) REFERENCES Divisions (division\_id)) ENGINE = INNODB;

CREATE TABLE Courses (course\_id INT AUTO\_INCREMENT, description VARCHAR(1000), same\_as VARCHAR(20), number INT NOT NULL, department\_id INT, PRIMARY KEY (course\_id), FOREIGN KEY (department\_id) REFERENCES Departments (department\_id)) ENGINE = INNODB;

CREATE TABLE Sections (section\_id INT, term VARCHAR(2) CHECK (term IN ('FA', 'JT', 'SP', 'S1', 'S2')), name VARCHAR(20) NOT NULL, short\_title VARCHAR(20) NOT NULL, min\_credits INT NOT NULL, max\_credits INT, comments VARCHAR(500), seven\_weeks TINYINT NOT NULL CHECK (seven\_weeks >= 0 AND seven\_weeks <= 2), course\_id INT, PRIMARY KEY (section\_id), FOREIGN KEY (course\_id) REFERENCES Courses (course\_id)) ENGINE = INNODB;

CREATE TABLE Requirements (requirements\_id INT AUTO\_INCREMENT, type VARCHAR(3) CHECK (type IN ('CO', 'PRE', 'LAB')), target\_course\_id INT, req\_course\_id INT, PRIMARY KEY (requirements\_id), FOREIGN KEY (target\_course\_id) REFERENCES Courses (course\_id), FOREIGN KEY (req\_course\_id) REFERENCES Courses (course\_id)) ENGINE = INNODB;

CREATE TABLE GenEds (gen\_ed\_id INT AUTO\_INCREMENT, name VARCHAR(50) NOT NULL, abbreviation VARCHAR(10) NOT NULL, also\_fulfills VARCHAR(50), PRIMARY KEY (gen\_ed\_id)) ENGINE = INNODB;

CREATE TABLE GenEdFulfillments (gen\_ed\_id INT AUTO\_INCREMENT, course\_id INT, comments VARCHAR(200), PRIMARY KEY (gen\_ed\_id, course\_id), FOREIGN KEY (gen\_ed\_id) REFERENCES GenEds (gen\_ed\_id), FOREIGN KEY (course\_id) REFERENCES Courses (course\_id)) ENGINE = INNODB;

CREATE TABLE Recommendations (recommendation\_id INT AUTO\_INCREMENT, course\_id INT, division\_id INT, PRIMARY KEY (recommendation\_id), FOREIGN KEY (course\_id) REFERENCES Courses (course\_id), FOREIGN KEY (division\_id) REFERENCES Divisions (division\_id)) ENGINE = INNODB;

CREATE TABLE Faculty (faculty\_id INT AUTO\_INCREMENT, first\_initial CHAR(1) NOT NULL, last\_name VARCHAR(20) NOT NULL, PRIMARY KEY (faculty\_id)) ENGINE = INNODB;

CREATE TABLE Buildings (building\_id INT AUTO\_INCREMENT, name VARCHAR(50) NOT NULL, abbreviation VARCHAR(10) NOT NULL, PRIMARY KEY (building\_id)) ENGINE = INNODB;

CREATE TABLE Rooms (room\_id INT AUTO\_INCREMENT, building\_id INT, number INT NOT NULL, PRIMARY KEY (room\_id), FOREIGN KEY (building\_id) REFERENCES Buildings (building\_id)) ENGINE = INNODB;

CREATE TABLE SectionMeetings (room\_id INT, section\_id INT, start\_time TIME NOT NULL, end\_time TIME NOT NULL, days VARCHAR(5) NOT NULL, PRIMARY KEY (room\_id, section\_id), FOREIGN KEY (room\_id) REFERENCES Rooms (room\_id), FOREIGN KEY (section\_id) REFERENCES Sections (section\_id)) ENGINE = INNODB;

CREATE TABLE FacultyAssignments (faculty\_id INT AUTO\_INCREMENT, section\_id INT, PRIMARY KEY (faculty\_id, section\_id), FOREIGN KEY (faculty\_id) REFERENCES Faculty (faculty\_id), FOREIGN KEY (section\_id) REFERENCES Sections (section\_id)) ENGINE = INNODB;