

**Combined Baccalaureate in Biology/Doctorate in Dentistry Program
(B.S./D.M.D.)**

Southern Illinois University Edwardsville and the SIU School of Dental Medicine offer a unique combined arts and sciences dental curriculum leading to the degrees of Bachelor of Science and Doctor of Dental Medicine. The pre-professional part of this curriculum is completed within three years on the Edwardsville campus, and the professional part in the School of Dental Medicine, Alton, Illinois. The dental school curriculum is a rigorous program that requires a strong work ethic, and organized, responsible and professional behavior. The course loads in dental school are very heavy each semester; comparable to 27-30 semester hours. A strong background obtained by taking upper level science courses as part of a full course load each semester at the undergraduate level will make the transition to our professional program more rewarding. School of Dental Medicine semesters are eighteen (18) weeks in length with students scheduled to be in class from 8:00a.m. to 5:00p.m., Monday through Friday.

The Admission committee views the following attributes for a successful candidate;

1. Resident of Illinois who attended high school in Illinois
2. Good Grades at SIUE
 - a. Average Cumulative GPA for incoming students of a 3.75 grade point average (GPA) on a 4.0 grade scale
 - b. Average Science GPA for incoming students of a 3.7 grade point average (GPA) on a 4.0 grade scale
3. Good Dental Admissions Test (DAT) score
 - a. Academic Average for incoming students 18.5 or higher
 - b. Perceptual Ability Average for incoming students 18.5 or higher
4. Full course loads of 17 or more credit hours per semester of B.S./D.M.D. approved courses
5. Well-expressed personal desire to become a dentist
6. Professional dress, language and demeanor-these qualities should be expressed in recommendation letters.
7. Letters of recommendation from academic sources
 - a. BSDMD Advisor
 - b. Three (3) Science Faculty
 - c. One (1) other Faculty from a Writing Intensive Course
8. Personal essay in formal essay form expressing, "Why I Want to Be a Dentist!"
9. Extra Curricular Activities while in college.
 - a. Clubs
 - b. Sports
 - c. Civic
 - d. Work Experience
10. Professional Dental Office Shadowing (Recommend 100 hours which can be done in the summers of undergraduate studies.)

I. When the student arrives at SIUE

- Any student showing interest in dental school and the BSDMD program, which meets the qualifications and is coming in with above average high school grades, should be advised by the BSDMD advisor to see if he/she is a good candidate for the BSDMD program.
- The student should be advised to follow the recommended curriculum and take at least 17 credit hours his/her first semester. The curriculum guide is not to be deviated from unless
 - i. The student has AP or Junior College/High School Dual Credit
 - ii. The student could not get in the class and has worked with the BSDMD advisor to take it out of sequence.
- If the student is coming in with any AP or Junior College/High School Dual Credit
 - i. These credits can **not** be used on Biology, Physics, or Chemistry courses
 - ii. These credits can be used on general education and math courses
 - iii. If the student does not have to take a course on the curriculum guide he/she is to fill the spot with an upper level Biology, Physics, or Chemistry course.
- The student should be encouraged to start on a Personal essay in formal essay form expressing, "Why I Want to Be a Dentist!"

II. Upon completion of the first semester at SIUE

- The student should turn in a Personal essay in formal essay form expressing, "Why I Want to Be a Dentist!"
- The student should sign the BSDMD contract enrolling them in the BSDMD program.
- The student should be advised by the BSDMD advisor.
- The student should get a copy of the recommendation letter form from the BSDMD advisor for every faculty member that they want to be evaluated by.

III. Upon completion of the first year of the Combined Degree curriculum and having met the following criteria, the Dean of the School of Dental Medicine shall offer conditional acceptance into the School of Dental Medicine:

- Composite letter of Recommendation from the BS/DMD advisor
- Achievement of a 3.7 grade point average (GPA) on a 4.0 grade scale in science (Biology, Chemistry, & Physics)
- The required science courses (Biology, Chemistry both inorganic and organic, and Physics) must be taken at SIUE. (Any AP or Junior College/High School Dual Credit will not be accepted.)
- Achievement of at least a 3.75 grade point average (GPA) on a 4.0 grade scale in all other courses
- Appointment with an SIU-SDM Admissions representative

Upon receipt of the student's signed letter of agreement for acceptance into this program, the SIU-SDM Admissions Office will initiate the formal admissions process with the student submitting appropriate data. In addition, the student will be assigned a current dental student to serve as a student advisor.

- The student should get a copy of the Recommendation Letter Form from the BSDMD advisor for every faculty member that they want to be evaluated by for the second year of the pre-professional curriculum.

IV. After completing the second year of the pre-professional curriculum and prior to the completion of the third year of this Program, the student will be allowed to continue in the Program by meeting the following criteria:

- Achievement of at least a 3.75 grade point average (GPA) on a 4.0 grade scale in all other courses
- Achievement of a 3.7 grade point average (GPA) on a 4.0 grade scale in science (Biology, Chemistry, & Physics)
- A minimum of 90 semester hours (approx. 3 years) of undergraduate courses is required. Science courses should not be survey courses nor should they be taken online.
- Updated composite letter of recommendation from the BS/DMD Advisor, including evaluations from at least three faculty science members and one writing intensive faculty member, forwarded to the SIU-SDM Admissions Office by July 1.
- Successful achievement on the Dental Admissions Test (DAT) by October of the third year (All Program students are encouraged to take the DAT no later than October of the year prior to first year of the professional dental curriculum.)
- Completion of the SIU-SDM application process (AADSAS is NOT required)

This third-year student will be assigned a dental school faculty member as an additional advisor.

Upon successful completion of the first year in the School of Dental Medicine recommendation of the Dean, this student will be granted the degree of Bachelor of Science by the Southern Illinois University Edwardsville faculty at the first summer commencement following the first year of the professional dental curriculum.

For additional information contact: Admissions Office, Southern Illinois University, School of Dental Medicine, 2800 College Avenue, Alton, Illinois 62002 Phone: 618-474-7170

Only applies to Illinois Residents who attended high school in Illinois

Undergraduate Curriculum Guide (Recommended¹)- Joint BS/DMD

Fall 1

CHEM121a- General Chemistry	4
CHEM125a- General Chemistry Lab	1
ENG101 ² - English Composition	3
SPC103 ³ - Interpersonal Composition-IGR	3
PHIL106 ⁴ - (Critical Thinking) / MATH106 (Problem Solving)/FL106 (Word Analysis) ⁴	3
MATH120 ⁵ -College Algebra or MATH125 ⁵ - Pre-Calculus or MATH150 ⁵ -Calculus I	3-5
	17-19

Spring 1

CHEM121b- General Chemistry	4
CHEM125b- General Chemistry Lab	1
ENG102- English Composition	3
BIOL120- Animal Systems	4
Gen Ed ⁶ -(if needed)	(3)
MATH125 ⁵ -Pre-Calculus or MATH 150 ⁵ - Calculus I or Gen Ed ⁶	3-5
	17-18

Summer 1: MATH 150⁵ can be taken in the summer if student started in MATH 120⁵

Fall 2

CHEM241a- Organic Chemistry 1	3
BIOL121- Plant Systems	4
PHYS131a- College Physics 1	5
Gen Ed ¹ -Intro. FAH	3
Gen Ed ¹ -Intro. SS (ANTH111 suggested)	3
	18

Spring 2

CHEM241b- Organic Chemistry 2	3
CHEM245- Organic Chemistry Lab	2
PHYS131b- College Physics 2	5
BIOL220- Genetics	4
Gen Ed ¹ Intro.-FAH or SS (II/IC)	3
	17

Summer 2: Take the DAT

Fall 3

CHEM451a- Biochemistry 1	3
BIOL319- Cell and Molecular Biology	4
BIOL389 ⁷ - Comparative Vertebrate Anatomy	4
STAT244- General Statistics	4
Gen Ed ¹ -Dist. FAH (ART202c suggested, A form to waive prerequisites can be retrieved From the music dept.)	3
	18

Spring 3

CHEM451b- Biochemistry 2	3
BIOL340- Animal Physiology	4
IS- Interdisciplinary Studies	3
Gen Ed ¹ -Dist. SS	3
Gen Ed ⁶ -Extra Biology	3-4
Gen Ed ⁶ -Extra Biology(if needed)	3
	17-19

¹ A student may choose from a wide variety of courses to meet the University's General Education requirements. Twelve Gen Ed courses outside of science and math are required to meet the University's requirements for graduation for students who are not in the Honors students. Completion of all requirements can be accomplished with 10 courses only when the Intergroup (IGR) and Intercultural/ International Issues (II/IC) requirements are met by courses that also fulfill Skills, Fine Arts and Humanities (FAH) and/or Social Science (SS) requirements. There is almost no flexibility in scheduling science courses due to firm prerequisites. Honors students develop individual undergraduate plans in consultation with their mentors. Suggested courses are ART112d with ART202a or ART202g. Suggested D/FAH courses are ART202c. Suggested SS courses are ANTH111

²SIUSDM requires six hours of English. Honors students can meet this requirement by taking HONS120 and one additional English course.

³SPC 103 meets the Skills requirement for Communication. While there are other courses that will meet this requirement, SPC103 is the only one that also meets the Gen Ed Inter-group Relations Requirement (IGR).

⁴PHIL 106 meets the Skills requirement of critical thinking. This requirement can also be met by MATH106 (Problem Solving) and Foreign Language 106 (Word Analysis). FL106 is recommended if it will fit in the schedule.

⁵Most students entering this program begin their math at least at the pre-calculus level (MATH125). This program will accommodate students who begin with college algebra (MATH120) but it will mean taking calculus (MATH150) over the first summer.

⁶ This Gen Ed may be required if a student begins this curriculum with Calculus I (MATH 150) and needs to maintain the 17 credit hours per semester required or if they choose to take BIOL240a and b instead of BIOL389 for their anatomy requirement. Suggested courses are: BIOL415a and b-Techniques in Cell and Tissue Culture, BIOL418a and b-Recombinant DNA, BIOL421-Human Genetics, BIOL431-Cell and Molecular Bases of Medicine, BIOL432-Advanced Cell, BIOL441- Advanced Physiology, BIOL444a and b-Neurobiology, BIOL451 Microbial Pathogenesis, BIOL452 Molecular Genetics, or BIOL 455-Virology.

⁷ In addition to meeting the required math, physics, chemistry, and biology courses for Biology majors with specialization in Medical Science, students in the BS/DMD program must also take an anatomy course. This requirement can be met by taking Comparative Vertebrate Anatomy (BIOL 389) or Human Anatomy and Physiology (BIOL 240a and b), but if taking BIOL240a and b it will not be counted toward Biology degree.