

Pre-Professional Health Dentistry Programs

The following list will take you to the curriculum maps for each potential pre-professional health major for the dentistry field:

- [B.S. Biology/Pre-Dental](#)
- [B.S. Chemistry, Biochemistry/Pre-Dental](#)
- [B.S. Chemistry/Pre-Dental](#)
- [B.S. Molecular Biology and Biotechnology/Pre-Dental](#)
- [B.A. Psychology/Pre-Dental](#)
- [B.S. Psychology/Pre-Dental](#)
- [B.A. Sociology Degree/Pre-Dental](#)

Tentative Four-Year Plan: BS Biology / Pre-Dental

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with specific Dental programs for pre-requisites not included below. Some possible recommended courses may include: Microeconomics or Macroeconomics, Medical Terminology, Fine Jewelry, and Ceramics

Tentative Four-Year Plan: BS Biology / Pre-Dental		
Class	Fall Term	Spring Term
Freshman	BIOL 105: Freshman Biology Seminar BIOL 155: Principles of Biology I BIOL 165: Principles of Biology I Laboratory CHEM 153: General Chemistry I CHEM 163: General Chemistry I Laboratory INQ 1XX Freshman Inquiry Seminar ENG 111: College Writing II <div style="text-align: right;">Credits: 15</div>	BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Laboratory CHEM 154: General Chemistry II CHEM 164: General Chemistry II Laboratory MATH 171: Precalculus PSY 211: General Psychology <div style="text-align: right;">Credits: 15</div>

Summer: Job Shadow

Sophomore	BIOL 201: Genetics BIOL 203: Cell Biology CHEM 251: Organic Chemistry I CHEM 261: Organic Chemistry I Laboratory MATH 270: Calculus I Gen Ed: NFSS 1XX <div style="text-align: right;">Credits: 15</div>	BIOL 202: Principles of Ecology BIOL 341: General Microbiology CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Laboratory SOC 211: Principles of Sociology <div style="text-align: right;">Credits: 14</div>
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Summer: Job Shadow and Test Prep (DAT)

Junior	BIOL 251: Human Anatomy & Physiology I BIOL 261: Human Anatomy & Physiology I Lab PH 251: General Physics I BCHM 453: Biochemistry Gen Ed: Elective (as needed) NFSS 111: Health Education <div style="text-align: right;">Credits: 16</div>	BIOL 252: Human Anatomy & Physiology II BIOL 262: Human Anatomy & Physiology II Lab PH 252: General Physics II BCHM 454: Biochemistry II MATH 221: Elem. Applied Stats Gen Ed: English <div style="text-align: right;">Credits: 17</div>
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Summer: Take DAT and Submit Application

Senior	BIOL Elective (BIOL 300+) BIOL Elective (BIOL 300+) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) <div style="text-align: right;">Credits: 15-17</div>	BIOL Elective (BIOL 300+) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) <div style="text-align: right;">Credits: 15-16</div>
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Tentative Four-Year Plan: BS Chemistry, Biochemistry Concentration / Pre-Dent

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with any specific Dental program requirements not covered below. Some possible recommended courses would include the following: Microeconomics or Macroeconomics, Medical Terminology, Fine Jewelry, and Ceramics

Tentative Four-Year Plan: BS Chemistry, Biochemistry Concentration / Pre-Dent		
Class	Fall Term	Spring term
Freshman	CHEM 151: Principles of Chemistry I CHEM 161 Principles of Chemistry I Laboratory BIOL 155: Principles of Biology I BIOL 165: Principles of Biology I Laboratory ENG 111: College Writing MATH 171: Precalculus <div style="text-align: right;">Credits: 16</div>	CHEM 152: Principles of Chemistry II CHEM 162 Principles of Chemistry II Laboratory MATH 270: Calculus I INQ 1XX: Freshman Seminar PSY 211: General Psychology <div style="text-align: right;">Credits: 14</div>

Summer: Job Shadow

Sophomore	CHEM 251 Organic Chemistry I CHEM 261 Organic Chemistry I Lab MATH 271 Calculus II PH 251 General Physics I SOC 211: Principles of Sociology <div style="text-align: right;">Credits: 15</div>	CHEM 252 Organic Chemistry II CHEM 262 Organic Chemistry II BIOL 203 Cell Biology OR BIOL 201 Genetics PH 252 General Physics II Gen Ed: English <div style="text-align: right;">Credits: 14</div>
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Summer: Job Shadow and DAT Preparation

Junior	CHEM 353: Analytical Chemistry I CHEM 363: Analytical Chemistry I Laboratory BCHM 453: Biochemistry I BCHM 463: Biochemistry I Lab BIOL 251: Anatomy and Physiology I BIOL 261: Anatomy and Physiology I Laboratory NFSS 111: Health Education <div style="text-align: right;">Credits: 14</div>	CHEM 358: Analytical Chemistry II CHEM 368: Analytical Chemistry II Laboratory BCHM 454: Biochemistry II BIOL 341: General Microbiology Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) <div style="text-align: right;">Credits: 17</div>
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Summer: Take DAT and Submit Application

Senior	CHEM 354: Physical Chemistry I CHEM 364: Physical Chemistry I Lab BIOL 483: Molecular Biology Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Gen Ed: NFSS 1XX <div style="text-align: right;">Credits: 13</div>	CHEM 470: Chemistry Seminar CHEM 265: Inorganic Chemistry I CHEM 266: Inorganic Chemistry I Laboratory Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) <div style="text-align: right;">Credits: 17</div>
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Tentative Four-Year Plan: BS Chemistry / Pre-Dental

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with any specific Dental program requirements not covered below. Some possible recommended courses would include the following: Microeconomics or Macroeconomics, Medical Terminology, Fine Jewelry, and Ceramics

Tentative Four-Year Plan: BS Chemistry / Pre-Dental		
Class	Fall Term	Spring Term
Freshman	CHEM 151: Chemical Principles I CHEM 161: Chemical Principles Lab MATH 171: Precalculus BIOL 155: Principles of Biology I BIOL 165: Principles of Biology I Lab INQ 1XX: Freshman Inquiry Seminar Credits: 15	CHEM 152: Chemical Principles II CHEM 162: Chemical Principles. II Lab MATH 270: Calculus I BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Lab ENG 111: College Writing Credits: 15

Summer: Job Shadow

Sophomore	CHEM 251: Organic Chemistry I CHEM 261: Organic Chemistry I Lab MATH 271: Calculus II PH 251: General Physics I OR PH 258: Introduction to Physics I PH 268: Introduction to Physics I Lab PSY 211: General Psychology Credits: 15	CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Lab CHEM 265: Inorganic Chemistry I CHEM 266: Inorganic Chemistry I Lab PH 252: General Physics II OR PH 258: Introduction to Physics II PH 268: Introduction to Physics II Lab Gen Ed: English Credits: 15
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Summer: Job Shadow and DAT Prep

Junior	CHEM 353: Analytical Chemistry I CHEM 363: Analytical Chemistry I Lab CHEM 366: Inorganic Chemistry II CHEM 367: Inorganic Chemistry II Lab BIOL 251: Anatomy and Physiology I BIOL 261: Anatomy and Physiology Lab I SOC 211: Principles of Sociology Credits: 15	CHEM 358 Analytical Chemistry II CHEM 368 Analytical Chemistry II Lab CHEM 257 Organic Spectroscopy BIOL 252: Anatomy and Physiology II BIOL 262: Anatomy and Physiology Lab II Gen Ed: Elective (as needed) Gen Ed: NFSS 1XX Credits: 16
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Summer: Take DAT and Submit Application

Senior	CHEM 354: Physical Chemistry I CHEM 364 Physical Chemistry I Lab BCHM 453 Biochemistry I BCHM 463 Biochemistry Lab Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) NFSS 111: Health Education Credits: 16	CHEM 355 Physical Chemistry II CHEM 470 Chemistry Seminar Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Credits: 15
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Tentative Four-Year Plan: BS Molecular Biology and Biotechnology / Pre-Dental

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with any specific Dental program requirements not covered below. Some possible recommended courses would include the following: Microeconomics or Macroeconomics, Medical Terminology, Fine Jewelry, and Ceramics

Class	Fall Term	Spring Term
Freshman	BIOL 105: Freshman Biology Seminar BIOL 155: Principles of Biology I BIOL 165: Principles of Biology I Laboratory CHEM 153: General Chemistry I CHEM 163: General Chemistry I Laboratory INQ 1XX: Freshman Inquiry Seminar ENG 111: College Writing <div style="text-align: right;">Credits: 15</div>	BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Laboratory CHEM 154: General Chemistry II CHEM 164: General Chemistry II Laboratory MATH 171: Precalculus PYSH 211: General Psychology <div style="text-align: right;">Credits: 15</div>

Summer: Job Shadow

Sophomore	BIOL 201: Genetics BIOL 203: Cell Biology CHEM 251: Organic Chemistry I CHEM 261: Organic Chemistry I Laboratory Gen Ed: English NFSS 111: Health Education <div style="text-align: right;">Credits: 15</div>	BIOL 341: General Microbiology CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Laboratory MATH 270: Calculus I SOC 211: Principles of Sociology <div style="text-align: right;">Credits: 15</div>
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Summer: Job Shadow and DAT Prep

Junior	BIOL 251: Anatomy and Physiology I BIOL 261: Anatomy and Physiology I Laboratory PH 251: General Physics I BCHM 453: Biochemistry BCHM 463: Biochemistry Lab BIOL 483: Molecular Biology <div style="text-align: right;">Credits: 16</div>	BIOL 252: Anatomy and Physiology II BIOL 262: Anatomy and Physiology Laboratory II PH 252: General Physics II MATH 221: Statistics Gen Ed: Elective (as needed) <div style="text-align: right;">Credits: 14</div>
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Summer: Take DAT and Submit Application

Senior	BIOL Elective (BIOL 300+) BIOL Elective (BIOL 300+) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) <div style="text-align: right;">Credits: 15-16</div>	BIOL 485: Biotechnology BIOL 450: Cell Physiology Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Gen Ed: NFSS 1XX <div style="text-align: right;">Credits: 15</div>
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Tentative Four-Year Plan: BA Psychology Degree/ Pre-Dental

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with any specific Dental program requirements not covered below. Some possible recommended courses would include the following: Microeconomics or Macroeconomics, Medical Terminology, Fine Jewelry, and Ceramics

Tentative Four-Year Plan: BA Psychology Degree/ Pre-Dental		
Class	Fall Term	Spring Term
Freshman	BIOL 155: Principles of Biology I BIOL 165: Principles of Biology I Laboratory ENG 110 or 111: Writing PSY 211: General Psychology SPAN 151/FR 151: Spanish I/French I INQ 100: Inquiry Seminar <div style="text-align: right;">Credits: 16</div>	BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Laboratory MATH 171: Pre-calculus ENG 111 or advanced writing course PSY 310: Developmental Psychology SPAN 152/FR 152: Spanish II/French II <div style="text-align: right;">Credits: 17</div>

Summer: Job Shadow

Sophomore	CHEM 153: General Chemistry I CHEM 163: General Chemistry I Laboratory MATH 270: Calculus PH 251: General Physics I PSY 301: Statistics SPAN 251/FR 251: Spanish III/French III Gen Ed: NFSS 1XX <div style="text-align: right;">Credits: 17</div>	CHEM 154: General Chemistry II CHEM 164: General Chemistry II Laboratory PH 252: General Physics II PSY 311: Research Methods PSY 354: Abnormal Psychology SPAN 252/FR 252: Spanish IV/French IV NFSS 111: Health Education <div style="text-align: right;">Credits: 18</div>
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Summer: Job Shadow and DAT Preparation

Junior	CHEM 251: Organic Chemistry CHEM 261: Organic Chemistry Laboratory ANTH 211: Humans and Culture PSY 355: Social Psychology PSY 3XX: Elective PSY 3XX: Elective <div style="text-align: right;">Credits: 16</div>	CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Laboratory PHIL 111: Critical Thinking PS 211: American Government PSY 3XX: Elective PSY Elective <div style="text-align: right;">Credits: 16</div>
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Summer: Take DAT and Submit Application

Senior	ECON 221 or 222: Micro or Macro Economics ART 230: Ceramics PHIL 212: Ethics PSY 470: Senior Seminar PSY Elective <div style="text-align: right;">Credits: 15</div>	ART 228: Introduction to Jewelry COM 113: Public Speaking AH 101: Medical Terminology Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) <div style="text-align: right;">Credits: 15</div>
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Tentative Four-Year Plan: BS Psychology/Pre-Dentistry

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with specific Dental programs for pre-requisites not included below. Some possible recommended courses may include: Microeconomics or Macroeconomics, Medical Terminology, Fine Jewelry, and Ceramics

Tentative Four-Year Plan: BS Psychology/Pre-Dentistry		
Class	Fall Term	Spring Term
Freshman	BIOL 155: Principles of Biology 1 BIOL 165: Principles of Biology I Laboratory ENG 110 or 111: Writing PSY 211: General Psychology General Education Skills Course INQ 1XX Freshman Inquiry Seminar Credits: 16	BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Laboratory MATH 171: Pre-calculus ENG 111 or advanced writing course PSY 310: Developmental Psychology General Education Skills Course Credits: 17

Summer: Job Shadow

Sophomore	CHEM 153: General Chemistry I CHEM 163: General Chemistry I Laboratory MATH 270: Calculus I PH 251: General Physics I PSY 301: Statistics ART 230: Ceramics Gen Ed: NFSS 1XX Credits: 18	CHEM 154: General Chemistry II CHEM 164: General Chemistry II Laboratory PH 252: General Physics II PSY 311: Research Methods PSY 354: Abnormal Psychology ART 228: Introduction to Jewelry NFSS 111: Health Education Credits: 18
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Summer: Job Shadow and Test Prep (DAT)

Junior	CHEM 251: Organic Chemistry CHEM 261: Organic Chemistry Laboratory COM 113: Public Speaking PSY 355: Social Psychology PSY 351: Biopsychology PSY 3XX: Elective Credits: 17	CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Laboratory PHIL 111: Critical Thinking PS 211: American Government PSY 3XX: Elective PSY 454: Personality Credits: 16
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Summer: Job Shadow and Test Prep (DAT)

Senior	ECON 221 or 222: Micro or Macro Economics PHIL 212: Ethics PSY 470: Senior Seminar PSY Elective BCHM 453: Biochemistry BCHM 463: Biochemistry Lab Credits: 16	AH 101: Medical Terminology PSY Elective PSY Elective Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Credits: 15
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Summer: Take DAT and Submit Application

Note – This tentative academic plan assumes that the required course for physical therapy programs will not be completed until after graduation. Thus the student will apply after graduation and have a gap/push year before matriculating into a physical therapy program. Please consult your pre-professional advisor for the feasibility of completing the physical therapy requirements in three years and thus apply before graduation.

Tentative Four-Year Plan: BA Sociology Degree/ Pre-Dental

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with any specific Dental program requirements not covered below. Some possible recommended courses would include the following: Microeconomics or Macroeconomics, Medical Terminology, Fine Jewelry, and Ceramics

Tentative Four-Year Plan: BA Sociology Degree/ Pre-Dental		
Class	Fall Term	Spring Term
Freshman	BIOL 155: Principles of Biology I BIOL 165: Principles of Biology I Laboratory ENG 111: College Writing SOC 211: Principles of Sociology SPAN 151/FR 151 or CIS 110: Spanish I/French I or Computer Information Processing INQ 1XX Freshman Inquiry Seminar <div style="text-align: right;">Credits: 16</div>	BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Laboratory ANTH 211: Humans and Cultures PS 211: American Government SOC Elective SPAN 152/FR 152 or CIS 202: Spanish II/French II or Intro Event Drive Program <div style="text-align: right;">Credits: 16</div>

Summer: Job Shadow

Sophomore	CHEM 153: General Chemistry I CHEM 163: General Chemistry I Laboratory GEN ED: English Composition PH 251: General Physics I SOC 310 or SOC 312: Classical Social Theory or Microsociology SPAN 251/FR 251 or CIS 217: Spanish III/French III or Application of Microcomputers <div style="text-align: right;">Credits: 16</div>	CHEM 154: General Chemistry II CHEM 164: General Chemistry II Laboratory MATH 221: Elementary Applied Statistics PH 252: General Physics II SOC Elective SPAN 252/FR 252 or CIS 301: Spanish IV/French IV or Computer Systems Analysis <div style="text-align: right;">Credits: 16</div>
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Summer: Job Shadow and DAT Preparation

Junior	CHEM 251: Organic Chemistry CHEM 261: Organic Chemistry Laboratory PSY 211: General Psychology SOC 450 or SOC 451: Research Methods SOC Elective SOC/SW Elective <div style="text-align: right;">Credits: 16</div>	CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Laboratory PHIL 111: Critical Thinking MATH 171: Precalculus SOC Elective SOC/SW Elective <div style="text-align: right;">Credits: 16</div>
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Summer: Take DAT and Submit Application

Senior	<p>ECON 221 or 222: Micro or Macro Economics ART 230: Ceramics GEN ED: Personal Performance MATH 270: Calculus SOC Elective SOC/SW Elective</p> <p style="text-align: right;">Credits: 16</p>	<p>ART 228: Introduction to Jewelry COM 113: Public Speaking GEN ED (Social/Behavioral Science): WGS Course HPE 111: Health Education SOC Elective SOC/SW Elective</p> <p style="text-align: right;">Credits: 17</p>
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