

think : study abroad

Pre-Med Semester and Summer Study Abroad Pathways

Biological and Chemical Science Majors (BA and BS)

Year	Fall Semester	Spring Semester	Other Coursework	Study Abroad
First Year	MATH 125 (or 121) CHEM 105 BIOL 214/214L ¹	MATH 126 (or 122) CHEM 106 BIOL 215/215L ¹	<ul style="list-style-type: none"> CHEM 113 should be taken either fall or spring semester of the first year 	<p>OPTION 1: Take a Gap Year! Most medical school applicants are. It increases your competitiveness:</p> <p>A. Move PHYS sequence & go spring of third year B. Go either semester of fourth year (apply to medical schools that spring semester)</p> <p>OPTION 2: Spend second year spring semester abroad! This requires moving chemistry sequence up a semester through:</p> <p>A. CHEM 105 AP credit (not always recommended) B. CHEM 224 & 234 (lab) move to summer</p> <p>OPTION 3: Spend summer after second year abroad! Alternative to Option 2:B above as summer study abroad programs are typically less expensive than summer study at CWRU</p>
Second Year	CHEM 223 (or 323) CHEM 233 BIOL 216/216L ¹	CHEM 224 (or 324) CHEM 234	<ul style="list-style-type: none"> SAGES Seminars cover English Composition requirement 	
Third Year	PHYS 115 (or 121) BIOC 307 or CHEM 328 ²	PHYS 116 (or 122) <i>If <u>not</u> taking a Gap Year, should take MCAT and apply to medical schools this semester</i>	<ul style="list-style-type: none"> PSCL 101 and SOCI 101 should be taken by the end of the third year One course in Statistics³ by the end of the third year if possible, but the fourth year is OK 	
Fourth Year	<i>If <u>not</u> taking a Gap Year, medical school interviews occur this semester (historically, they do not do these virtually)</i>	<i>If <u>not</u> taking a Gap Year, final transcripts must be sent to medical school immediately. spring semester study abroad delays transcript processing</i>		

Pre-Med Semester and Summer Study Abroad Pathways Cont...

Mathematical and Physical Science Majors (BA and BS)

Year	Fall Semester	Spring Semester	Other Coursework	Study Abroad
First Year	MATH 121 (or 125) CHEM 105 PHYS 121 (or 115)	MATH 122 (or 126) CHEM 106 PHYS 122 (or 116)	<ul style="list-style-type: none"> • CHEM 113 should be taken either fall or spring semester of the first year. • SAGES Seminars cover English composition requirement • PSCL 101 and SOCI 101 should be taken by the end of the third year • One course in Statistics³ by the end of the third year if possible, but the fourth year is OK 	<p>OPTION 1: Take a Gap Year! Most medical school applicants are. It increases your competitiveness:</p> <p>A. Study abroad spring semester of third year B. Go either semester of fourth year (apply to medical schools that spring semester)</p> <p>OPTION 2: Spend second year spring semester abroad! This requires moving biology sequence up a semester through:</p> <p>A. BIOL 214/214L in spring semester of first year and B. BIOL 215/215L in fall semester of second year <u>And</u>, moving chemistry sequence up a semester:</p> <p>A. CHEM 105 AP credit (not always recommended) B. CHEM 224 & 234 (lab) move to summer</p> <p>OPTION 3: Spend summer after second year abroad! Alternative to Option 2:B above as summer study abroad programs are typically less expensive than summer study at CWRU</p>
Second Year	CHEM 223 (or 323) CHEM 233 BIOL 214/214L ¹	CHEM 224 (or 324) CHEM 234 BIOL 215/215L ¹		
Third Year	BIOL 216/216L ¹ BIOC 307 or CHEM 328 ²	<i>If <u>not</u> taking a Gap Year, should take MCAT and apply to medical schools this semester</i>		
Fourth Year	<i>If <u>not</u> taking a Gap Year, medical school interviews occur this semester (historically, they do not do these virtually)</i>	<i>If <u>not</u> taking a Gap Year, final transcripts must be sent to medical school immediately. spring semester study abroad delays transcript processing</i>		

Pre-Med Semester and Summer Study Abroad Pathways Cont...

Arts, Humanities and Social Science Majors

Year	Fall Semester	Spring Semester	Other Coursework	Study Abroad
First Year	CHEM 105 MATH 125	CHEM 106 BIOL 214/214L ¹	<ul style="list-style-type: none"> • CHEM 113 should be taken either fall or spring semester of the first year • SAGES Seminars cover English composition requirement • PSCL 101 and SOCI 101 should be taken by the end of the third year • One course in Statistics³ by the end of the third year 	<p>OPTION 1: Take a Gap Year! Most medical school applicants are. It increases your competitiveness:</p> <p>A. Move PHYS sequence & go spring of third year B. Go either semester of fourth year (apply to medical schools that spring semester)</p> <p>OPTION 2: Spend second year spring semester abroad! This requires moving chemistry sequence up a semester through:</p> <p>A. CHEM 105 AP credit (not always recommended) B. CHEM 224 & 234 (lab) move to summer And moving BIOL 216/216L to fall semester third year</p> <p>OPTION 3: Spend summer after second year abroad! Alternative to Option 2:B above as summer study abroad programs are typically less expensive than summer study at CWRU</p>
Second Year	CHEM 223 (or 323) CHEM 233 BIOL 215/215L ¹	CHEM 224 (or 324) CHEM 234 BIOL 216/216L ¹		
Third Year	PHYS 115 (or 121) BIOC 307 or CHEM 328 ²	PHYS 116 (or 122) <i>If <u>not</u> taking a Gap Year, should take the MCAT and apply to medical schools this semester</i>		
Fourth Year	<i>If <u>not</u> taking a Gap Year, medical school interviews occur this semester (historically, they do not do these virtually)</i>	<i>If <u>not</u> taking a Gap Year, final transcripts must be sent to medical school immediately. spring semester study abroad delays transcript processing</i>		

Pre-Med Semester and Summer Study Abroad Pathways Cont...

Engineering Majors

Year	Fall Semester	Spring Semester	Other Coursework	Study Abroad
First Year	MATH 121 CHEM 111 PHYS 121 ⁴	MATH 122 ENGR 145 PHYS 122	<ul style="list-style-type: none"> CHEM 113 should be taken either fall or spring semester of the first year SAGES Seminars cover English composition requirement PSCL 101 and SOCI 101 should be taken by the end of the third year One course in Statistics³ by the end of the third year if possible, but the fourth year is OK 	<p>OPTION 1: Take a Gap Year! Most medical school applicants are. It increases your competitiveness:</p> <p>A. Study abroad spring semester third year B. Go either semester of fourth year (apply to medical schools that spring semester)</p> <p>OPTION 2: Spend second year spring semester abroad! This requires moving biology sequence up a semester through:</p> <p>A. BIOL 214/214L in spring semester of first year and B. BIOL 215/215L in fall semester of second year <u>And</u>, moving chemistry sequence up a semester:</p> <p>A. CHEM 111 AP credit (not always recommended) B. CHEM 224 & 234 (lab) move to summer</p> <p>OPTION 3: Spend summer after second year abroad! Alternative to Option 2:B above as summer study abroad programs are typically less expensive than summer study at CWRU</p>
Second Year	CHEM 223 (or 323) CHEM 233 BIOL 214/214L ¹	CHEM 224 (or 324) CHEM 234 BIOL 215/215L ¹		
Third Year	BIOL 216/216L ¹ BIOC 307 or CHEM 328 ²	<i>If not taking a Gap Year, should take the MCAT and apply to medical schools this semester</i>		
Fourth Year	<i>If not taking a Gap Year, medical school interviews occur this semester (historically, they do not do these virtually)</i>	<i>If not taking a Gap Year, final transcripts must be sent to medical school immediately. spring semester study abroad delays transcript processing</i>		

¹**Biology:** Although most professional health science schools require only two semesters of general biology, you should take the third semester of the BIOL 214, 215, 216 sequence. Material from all three courses is covered on the MCAT and DAT. You should take at least two labs from BIOL 214L, 215L, and 216L. Biomedical engineering students do not need to take BIOL 216 as this material is covered in EBME 201 and 202.

²**Biochemistry:** You may take either BIOC 307 or CHEM 328 for their introductory biochemistry course. BIOC 307 is offered only in the fall semester, while CHEM 328 is offered both semesters.

³**Statistics:** This requirement can be fulfilled with ANTH 319, OPRE 207, PSCL 282, STAT 201, STAT 201R, STAT 312, or STAT 312R.

⁴**Physics:** Some engineering majors recommend that students enroll in PHYS 121 during the spring semester of their first year. If you are a pre-health engineering student, refer to recommended courses for your intended major to decide the best time to start your physics sequence.

Source: <https://case.edu/postgrad/graduate-and-professional-school-planning/pre-health-advising/medicine>

Why Study Abroad as a Pre-Med?

Studying abroad sets your medical school application apart in *at least* three important ways: cultural competence, exposure to different healthcare systems and adaptability to unfamiliar environments. Read more:

<https://www.studentdoctor.net/2015/05/13/how-to-use-study-abroad-to-set-your-medical-school-application-apart/>

Right: A CWRU student poses in front of the Chilean hospital where medical Spanish & health studies comprised her summer study abroad focus



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