

Integrated Teacher Preparation Program (ITPP) FAQs

1. What is ITPP?

- a. 4 year pathway to gain a bachelor's degree and single subject California teaching credential. It is a collaboration between San Diego Miramar College and the University of San Diego to prepare more mathematics and science students for teaching in California.
- 2. What are the 6 areas of study? Biology, Biochemistry, Chemistry, Environmental Science, Mathematics and Physics.
 - 3. Do students need to apply to USD as soon as they choose an ITPP pathway?
 - a. No, students will take San Diego Miramar College courses for the first two years of their pathway and then apply and transfer to USD for upper division and credential courses.
- 4. What courses will fulfill core curriculum (general education) requirements?

 Please reference the USD-San Diego Miramar Core Curriculum (General Education Articulation Agreement and consult with an advisor before selecting courses.
 - 5. What can be done with this ITPP degree?
 - a. Work as a credentialed California teacher in a single subject for middle school or high school level.

For more information consult https://www.sandiego.edu/itpp/about/

Program Major: BIOLOGY

USD Course	San Diego Miramar College Course
Fall \	ear 1
BIOL 240 and 240L	BIOL 210A
CHEM 151 and 151L	CHEM 200 and 200L
Core Curriculum	General Education
Core Curriculum	General Education
Spring	Year 1
BIOL 242 and 242L	BIOL 210B
CHEM 152 and 152L	CHEM 201 and 201L
Core Curriculum	General Education
Core Curriculum	General Education
Summe	r Year 1
EOSC 110	GEOL 104
MATH 130 or 150	MATH 150
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	fear 2
BIOL 300 or 305	Must take at USD
CHEM 301 and 301L EDUC 381C	CHEM 231 and 231L Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education
Core Curriculum	General Education
Spring	Year 2
BIOL 300 or 305	Must take at USD
BIOL 309	Must take at USD
EDUC 382 or EDTE 310	CHIL 101 or CHIL 103
Core Curriculum	General Education
Core Curriculum	General Education
Summe	r Year 2
EDSP 389P	Must take at USD
Core Curriculum	General Education

Program Major: BIOLOGY (continued)

USD Course	San Diego Miramar College Course
Fall \	ear 3
BIOL Elective	Must take at USD
EDUC 337	Must take at USD
PHYS 136 and136L	PHYS 125 or PHYS 180A & PHYS 181A
Core Curriculum	General Education
Core Curriculum	General Education
Spring	Year 3
BIOL Elective	Must take at USD
EDUC 332P	Must take at USD
EDUC 384C	Must take at USD
PHYS 137 and 137L	PHYS 126 or PHYS 180B & PHYS 181B
Core Curriculum	General Education
Summe	r Year 3
Core Curriculum	General Education
Core Curriculum	General Education
Fall \	ear 4
EDUC 334	Must take at USD
EDUC 491P/S	Must take at USD
	Year 4
BIOL Elective	Must take at USD
BIOL Elective	Must take at USD
BIOL 495	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education

Program Major: BIOCHEMISTRY

USD Course	San Diego Miramar College Course
Fall	rear 1
CHEM 151 and 151L	CHEM 200 and 200L
MATH 150	MATH 150
Core Curriculum	General Education
Core Curriculum	General Education
Spring	Year 1
CHEM 152 and 152L	CHEM 201 and 201L
MATH 151	MATH 151
Core Curriculum	General Education
Core Curriculum	General Education
Summe	er Year 1
EOSC 110	GEOL 104
BIOL 240 and 240L	BIOL 210A
	Year 2
CHEM 301 and 301L	CHEM 231 and 231L
CHEM 396	Must take at USD
EDUC 381C	Must take at USD
PHYS 270 and 270L	PHYS 195
Core Curriculum	General Education
Spring	Year 2
CHEM 220	CHEM 251
CHEM 302 and 302L	CHEM 233 and 233L
EDUC 382 or EDTE 310	CHIL 101
PHYS 271 and 271L	PHYS 196
Summe	er Year 2
BIOL 242 and 242L	BIOL 210B
EDSP 389P	Must take at USD

Program Major: BIOCHEMISTRY (continued)

USD Course	San Diego Miramar College Course
Fall \	rear 3
BIOL 300	Must take at USD
CHEM 311	Must take at USD
CHEM 331	Must take at USD
EDUC 337	Must take at USD
PHIL 341	Must take at USD
	Year 3
CHEM 330	Must take at USD
CHEM 332	Must take at USD
EDUC 332P	Must take at USD
EDUC 384C	Must take at USD
Core Curriculum	General Education
	er Year 3
Core Curriculum	General Education
Core Curriculum	General Education
Falls	/o
	Year 4
EDUC 334	Must take at USD
EDUC 491P/S 100 Hrs Research	Must take at USD
100 Hrs Research	Must complete at USD
Spring	Year 4
CHEM Upper Division Elective	Must take at USD
CHEM 335W	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education
Core Curriculum	General Education

Program Major: CHEMISTRY

USD Course	San Diego Miramar College Course
Fall	rear 1
CHEM 151 and 151L	CHEM 200 and 200L
MATH 150	MATH 150
Core Curriculum	General Education
Core Curriculum	General Education
On visa	Vocad
	Year 1
CHEM 152 and 152L	CHEM 201 and 201L
MATH 151	MATH 151
Core Curriculum	General Education
Core Curriculum	General Education
Summe	er Year 1
EOSC 110	GEOL 104
BIOL 240 and 240L	BIOL 210A
	Year 2
CHEM 301 and 301L	CHEM 231 and 231L
CHEM 396	Must take at USD
EDUC 381C	Must take at USD
PHYS 270 and 270L	PHYS 195
Core Curriculum	General Education
0	V
	Year 2
CHEM 220	CHEM 251
CHEM 302 and 302L	CHEM 233 and 233L
EDUC 382 or EDTE 310	CHIL 101 or CHIL 103
PHYS 271 and 271L	PHYS 196
Summe	er Year 2
BIOL 242 and 242L	BIOL 210B
EDSP 389P	Must take at USD

Program Major: CHEMISTRY (continued)

USD Course	San Diego Miramar College Course
Fall	Year 3
CHEM 311	Must take at USD
CHEM 422W	Must take at USD
CHEM 440	Must take at USD
EDUC 337	Must take at USD
PHIL 341	Must take at USD
Sprin	g Year 3
CHEM 312	Must take at USD
CHEM 331	Must take at USD
EDUC 332P	Must take at USD
EDUC 384C	Must take at USD
Core Curriculum	General Education
Summ	er Year 3
Core Curriculum	General Education
Core Curriculum	General Education
Fall	Year 4
EDUC 334	Must take at USD
EDUC 491P/S	Must take at USD
100 Hrs Research	Must complete at USD
Sprin	g Year 4
CHEM Upper Division Elective	Must take at USD
CHEM 424	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education
Core Curriculum	General Education

Program Major: ENVIRONMENTAL SCIENCE

USD Course	San Diego Miramar College Course
Fall Y	ear 1
EOSC 110	GEOL 104
EOSC 123	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education
Spring	Year 1
BIOL 240 and 240L	BIOL 210A
CHEM 151 and 151L	CHEM 200 and 200L
EOSC 220	Must take at USD
Core Curriculum	General Education
Summe	r Year 1
MATH 150	MATH 150
Fall Y	ear 2
CHEM 152 and 152L	CHEM 201 and 201L
EDUC 381C	Must take at USD
EOSC 222	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education
Spring	Year 2
EOSC 300	Must take at USD
EOSC 314	Must take at USD
EOSC 382 or EDTE 310	CHIL 101 or CHIL 103
Core Curriculum	General Education
Core Curriculum	General Education
Summe	r Year 2
EDSP 389P	Must take at USD
Core Curriculum	General Education

Program Major: ENVIRONMENTAL SCIENCE (continued)

USD Course	San Diego Miramar College Course
Fall Y	'ear 3
EDUC 337	Must take at USD
EOSC 301W	Must take at USD
PHYS 136 and 136L	PHYS 125 or PHYS 180A & PHYS 181A
Core Curriculum	General Education
Ou viu	V2
	Year 3
EDUC 332P	Must take at USD
EDUC 384C	Must take at USD
EOSC Elective	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education
Summe	r Year 3
Core Curriculum	General Education
Core Curriculum	General Education
Fall Y	ear 4
EDUC 334	Must take at USD
EDUC 491P/S	Must take at USD
Spring	Year 4
EOSC 495	Must take at USD
EOSC Elective	Must take at USD
EOSC Elective	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education

Program Major: MATHEMATICS

MATH 118	USD Course	San Diego Miramar College Course
MATH 150 Core Curriculum Core Curriculum General Education Core Curriculum General Education Core Curriculum General Education Spring Year 1 COMP 150 CISC 190 or 192 MATH 151 PHYS 270 and 270L PHYS 195 Core Curriculum General Education Summer Year 1 Core Curriculum General Education Fall Year 2 EDUC 381C MATH 250 MATH 250 MATH 250 MATH 250 MATH 250 Core Curriculum General Education Spring Year 2 EDUC 382 or EDTE 310 MATH 254 MATH 320 MATH 254 MATH 320 MATH 325 or UD MATH 325 or UD General Education Summer Year 2 Summer Year 2 EDUC General Education General Education Spring Year 2 EDUC 382 or EDTE 310 MATH 254 MATH 320 MATH 320 MATH 320 MATH 325 or UD General Education General Education Summer Year 2	Fall `	Year 1
Core Curriculum Core Curriculum Core Curriculum General Education Core Curriculum General Education Spring Year 1 COMP 150 MATH 151 PHYS 270 and 270L Core Curriculum General Education Summer Year 1 Core Curriculum General Education Summer Year 1 Core Curriculum General Education Fall Year 2 EDUC 381C MATH 160 or MATH 260 MATH 250 MATH 250 Core Curriculum General Education Summer Year 1 Core Curriculum CISC 150 MATH 250 Core Curriculum General Education Spring Year 2 EDUC 382 or EDTE 310 MATH 110 MATH 320 MATH 320 MATH 254 MATH 325 or UD Core Curriculum General Education General Education Summer Year 2	MATH 118	MATH 104
Core Curriculum Core Curriculum Core Curriculum Comp 150 MATH 151 PHYS 270 and 270L Core Curriculum C	MATH 150	MATH 150
Spring Year 1	Core Curriculum	General Education
Spring Year 1		General Education
COMP 150 CISC 190 or 192 MATH 151 MATH 151 PHYS 270 and 270L PHYS 195 Core Curriculum General Education Summer Year 1 Core Curriculum General Education Fall Year 2 EDUC 381C Must take at USD MATH 160 or MATH 260 CISC 150 MATH 250 MATH 252 Core Curriculum General Education Core Curriculum General Education Spring Year 2 EDUC 382 or EDTE 310 CHIL 101 or CHIL 103 MATH 120 MATH 119 MATH 320 MATH 254 MATH 325 or UD Must take at USD Core Curriculum General Education Summer Year 2	Core Curriculum	General Education
MATH 151 PHYS 270 and 270L PHYS 195 Core Curriculum Summer Year 1 Core Curriculum General Education Fall Year 2 EDUC 381C MATH 160 or MATH 260 MATH 250 MATH 250 Core Curriculum General Education MATH 250 MATH 250 Core Curriculum General Education Core Curriculum Core Curriculum Core Curriculum Core Curriculum MATH 250 Spring Year 2 EDUC 382 or EDTE 310 MATH 110 MATH 120 MATH 120 MATH 120 MATH 325 MATH 254 MATH 325 or UD Core Curriculum General Education Math 254 MATH 325 or UD Core Curriculum Summer Year 2	Spring	
PHYS 270 and 270L Core Curriculum Summer Year 1 Core Curriculum General Education Fall Year 2 EDUC 381C MATH 160 or MATH 260 MATH 250 Core Curriculum General Education MATH 252 Core Curriculum General Education Spring Year 2 EDUC 382 or EDTE 310 MATH 120 MATH 320 MATH 325 or UD Core Curriculum General Education Math 325 Ma		
Summer Year 1 Core Curriculum General Education Fall Year 2 EDUC 381C MATH 160 or MATH 260 MATH 250 MATH 252 Core Curriculum General Education Spring Year 2 EDUC 382 or EDTE 310 MATH 120 MATH 320 MATH 325 or UD Core Curriculum General Education MATH 254 MATH 325 or UD Core Curriculum General Education Math 320 MATH 254 MATH 325 or UD Core Curriculum General Education Summer Year 2	-	
Summer Year 1 Core Curriculum Fall Year 2 EDUC 381C MATH 160 or MATH 260 MATH 250 Core Curriculum General Education MATH 252 Core Curriculum General Education Spring Year 2 EDUC 382 or EDTE 310 MATH 120 MATH 320 MATH 320 MATH 325 or UD Core Curriculum General Education Math 325 or UD Math 326 Math 327 Math 328 Math 329 Math 329 Math 320 Math 320 Math 320 Math 325 or UD Must take at USD Core Curriculum General Education Summer Year 2		
Fall Year 2 EDUC 381C Must take at USD MATH 160 or MATH 260 CISC 150 MATH 250 MATH 252 Core Curriculum General Education Core Curriculum General Education Spring Year 2 EDUC 382 or EDTE 310 CHIL 101 or CHIL 103 MATH 120 MATH 119 MATH 320 MATH 254 MATH 325 or UD Must take at USD Core Curriculum General Education	Core Curriculum	General Education
EDUC 381C Must take at USD MATH 160 or MATH 260 CISC 150 MATH 250 MATH 252 Core Curriculum General Education Core Curriculum General Education Spring Year 2 EDUC 382 or EDTE 310 CHIL 101 or CHIL 103 MATH 120 MATH 119 MATH 320 MATH 254 MATH 325 or UD Must take at USD Core Curriculum General Education	Summe	er Year 1
EDUC 381C MATH 160 or MATH 260 CISC 150 MATH 250 MATH 252 Core Curriculum General Education Core Curriculum Spring Year 2 EDUC 382 or EDTE 310 MATH 120 MATH 120 MATH 119 MATH 320 MATH 325 or UD Core Curriculum General Education Math 325 or UD Math 325 or UD Math 325 or UD Summer Year 2 Summer Year 2	Core Curriculum	General Education
MATH 160 or MATH 260 MATH 250 Core Curriculum Core Curriculum Spring Year 2 EDUC 382 or EDTE 310 MATH 120 MATH 120 MATH 320 MATH 325 MATH 325 or UD Core Curriculum CISC 150 MATH 252 General Education CHIL 101 or CHIL 103 MATH 119 MATH 320 MATH 254 MATH 325 or UD Core Curriculum Summer Year 2		Year 2
MATH 250 Core Curriculum General Education Core Curriculum Spring Year 2 EDUC 382 or EDTE 310 MATH 120 MATH 120 MATH 320 MATH 325 or UD MATH 325 or UD Core Curriculum Summer Year 2 Summer Year 2		
Core Curriculum Spring Year 2 EDUC 382 or EDTE 310 MATH 120 MATH 320 MATH 325 or UD Core Curriculum Summer Year 2 EDUC 382 or EDTE 310 Summer Year 2		
Core Curriculum Spring Year 2 EDUC 382 or EDTE 310 CHIL 101 or CHIL 103 MATH 120 MATH 119 MATH 320 MATH 254 MATH 325 or UD Must take at USD Core Curriculum Summer Year 2		<u> </u>
Spring Year 2 EDUC 382 or EDTE 310 CHIL 101 or CHIL 103 MATH 120 MATH 119 MATH 320 MATH 254 MATH 325 or UD Must take at USD Core Curriculum General Education Summer Year 2		
EDUC 382 or EDTE 310 MATH 120 MATH 119 MATH 320 MATH 254 MATH 325 or UD Must take at USD Core Curriculum Summer Year 2	Core Curriculum	General Education
MATH 120 MATH 320 MATH 254 MATH 325 or UD Must take at USD Core Curriculum General Education Summer Year 2	Spring	
MATH 320 MATH 325 or UD Must take at USD Core Curriculum General Education Summer Year 2		
MATH 325 or UD Core Curriculum Must take at USD General Education Summer Year 2		
Core Curriculum General Education Summer Year 2		
Summer Year 2		
	Core Curriculum	General Education
EDSP 389P Must take at USD		
	EDSP 389P	Must take at USD

Program Major: MATHEMATICS (continued)

USD Course	San Diego Miramar College Course
Fall	Year 3
EDUC 337	Must take at USD
MATH 350	Must take at USD
MATH 360	Must take at USD
PHIL 341	Must take at USD
Core Curriculum	General Education
Spring	Year 3
EDUC 332P	Must take at USD
EDUC 384C	Must take at USD
MATH 305	Must take at USD
MATH 375 or 380* or 325 or UD *MATH 300 may substitute for MATH 380	Must take at USD
MATH 375 or 380* or 325 or UD	Must take at USD
*MATH 300 may substitute for MATH 380	Note: Select MATH course not previously completed
Core Curriculum	General Education
	r Year 3
Core Curriculum	General Education
	/ear 4
EDUC 334	Must take at USD
EDUC 491P/S	Must take at USD
	Year 4
MATH 375 or 380* or 325 or UD	Must take at USD
*MATH 300 may substitute for MATH 380	Note: Select MATH course not previously completed
MATH 405	Must take at USD
MATH UD	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education

Program Major: PHYSICS

USD Course	San Diego Miramar College Course
Fall `	Year 1
CHEM 151 and 151L	CHEM 200 and 200L
MATH 150	MATH 150
Core Curriculum	General Education
Core Curriculum	General Education
Core Curriculum	General Education
Spring	Year 1
CHEM 152 and 152L	CHEM 201 and 201L
MATH 151	MATH 151
PHYS 270 and 270L	PHYS 195
Core Curriculum	General Education
Cumma	Vaca 4
	er Year 1
EOSC 110 BIOL 240 and 240L	GEOL 104 BIOL 210A
BIOL 240 and 240L	BIOL 210A
	Year 2
EDUC 381C	Must take at USD
MATH 250	MATH 252
PHYS 271 and 271L	PHYS 196
PHYS 281	Must take at USD
Core Curriculum	General Education
Spring	Year 2
EDUC 382 or EDTE 310	CHIL 101 or CHIL 103
MATH 310	Must take at USD
PHYS 272 and 272L	PHYS 197
PHYS 282	Must take at USD
Comme	er Year 2
	BIOL 210B
BIOL 242 and 242L EDSP 389P	Must take at USD
EDOL 2021	IVIUSI TAKE AT USD

Program Major: PHYSICS (continued)

USD Course	San Diego Miramar College Course
Fall \	ear 3
EDUC 337	Must take at USD
MATH 331	Must take at USD
PHIL 341	Must take at USD
PHYS 319	Must take at USD
PHYS 330	Must take at USD
Spring	Year 3
EDUC 332P	Must take at USD
EDUC 384C	Must take at USD
PHYS 314	Must take at USD
PHYS 3XX	Must take at USD
Core Curriculum	General Education
Summe	r Year 3
Core Curriculum	General Education
Core Curriculum	General Education
Fall	ear 4
EDUC 334	Must take at USD
EDUC 491P/S	Must take at USD
Spring	Year 4
PHYS 324	Must take at USD
PHYS 3XX	Must take at USD
PHYS 480W	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education