

Bioinformatics Professional Science Master's (PSM) Degree Plan (41 Credits)

Student Name:	Email and Cell Phone:
UTEP ID:	Office Location and Phone:
Undergraduate Major:	Student Type: Full-time / Part-time
Previous Graduate Study Area:	Start Date:
Research Advisor:	Expected Graduation Date:
Graduate Advisor: Dr. Ming-Ying Leung mleung@utep.edu ; 915.747.6836	GRE Scores:
For Course Registration: Bioinformatics Office bioinformatics@utep.edu ; 915.747.8484	TOEFL/IELTS Scores (if applicable):

Core Courses (16 credits)	Semester	Grade
BINF 5110 Biology Seminar for Bioinformatics		
BINF 5111 Chemistry Seminar for Bioinformatics		
BINF 5112 Computer Science Seminar for Bioinformatics		
BINF 5113 Mathematics Seminar for Bioinformatics		
BINF 5341 Analysis and Modeling of Biological Structures		
BINF 5351 Introduction to Bioinformatics I: Basic Sequence Comparisons		
BINF 5352 Introduction to Bioinformatics II: Gene Finding and Genomic Comparisons		
BINF 5354 Post-Genomic Analysis		
Internship in Bioinformatics (3 credits; mandatory)	Semester	Grade
BINF 5353 Working at a company, government agency, or academic institution		
Required Courses (13 credits)	Semester	Grade
BIOL 5340 Structure and Function of Macromolecules		
CS 5342 Data Base Management		
STAT 5329 Statistical Programming		
STAT 5428 Intro to Statistical Analysis		
Free Electives (9 credits; choose 3 from the following suggested courses)	Semester	Grade
<ul style="list-style-type: none"> • BINF 5396 and 5397; BINF 5398 and 5399 (for thesis option only) • BIOL 5302, 5316, 5326, 5329, 5342, 5343, and 5344 • CHEM 5329, 5339, and 5396 • CPS 5310, 5320, 5396, 5397, and 5401 • CS 5334, 5341, 5350, 5351, 5353, 5383, 5391, 5396, and 5397 • MATH 5329, 5330, 5335, and 5396 • STAT 5336, 5386, 5388, 5390, 5391, 5392, and 5396 		
1.		
2.		
3.		
Prerequisites (Complete in Year 1)	Semester	Grade
BIOL 3414 Molecular Cell Biology (Replaced by BIOL 3314 + 3115)		
CHEM 2324 Organic Chemistry + CHEM 2124 (Lab)		
CS 2401 Elementary Data Structures/Algorithms (CS 1301+1101 prereqs, Grades:)		
MATH 2300 Discrete Mathematics		
STAT 2480 Elementary Statistical Methods		

NOTES: