

# Fall 2005

## Telecommunications, Multimedia, and Applied Computing TMAC Individual Learning Plan (ILP)

School of Information Technology and Communications Design (ITCD)

Name (last, first) ,  BSID

Track: Tech ☐ Design ☐ Custom ☐ Program: Day ☐ Evening ☐ Faculty Advisor

Peer Advisor Review: \_\_\_\_\_ Date \_\_\_\_\_ Faculty Advisor Approval: \_\_\_\_\_ Date \_\_\_\_\_

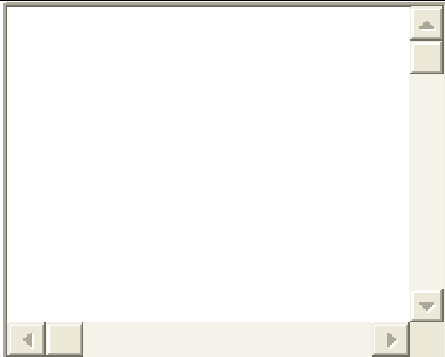
### ITCD Information and Contacts:

**Mail** CSUMB  
**Address:** School of Information Technology and  
Communications Design  
Building 18 Room 150,  
100 Campus Center, Seaside, Ca. 93955

**ITCD Website:** <http://itcd.csumb.edu>  
**Email:** [itcd@csumb.edu](mailto:itcd@csumb.edu)  
**Phone Numbers:** Office: (831) 582-3621  
Fax: (831) 582-4484  
ITCD Peer Advising: (831) 582-3789

MLOs	Add to ILP	Course Number	Title	Prerequisites and Notes	Alternate Pathway * ( approval form attached for each alternate path)	Term (Planned)
<b>Core MLOs</b>	<b>Fulfill CST 300: Major ProSeminar and C1-C6</b>					
<b>C0</b> Professional Communication and Development	<input type="checkbox"/>	CST 300 / CST 300L	Major ProSeminar	Not open to Freshmen. Completion of the Tech/Info ULR and the EngCom ULR, or instructor consent. This course fulfills the GVAR requirement	<input type="text"/>	<input type="text"/>
<b>C1&amp; C4</b> Knowledge of Computers & Telecommunications	<input type="checkbox"/>	CST 337	Computing Architectures and Environments	CST 101 or completion of the Tech/Info ULR or instructor consent. (This course also fulfills MLO T3)	<input type="text"/>	<input type="text"/>
<b>C2</b> Design	<input type="checkbox"/>	CST 201 / CST 201L	Media Tools	CST 101 or completion of the Tech/Info ULR or instructor consent. (This course also fulfills the Creative and Artistic Expression ULR)	<input type="text"/>	<input type="text"/>
<b>C3</b> Programming (choose one)	<input type="checkbox"/>	CST 221	Programming: Scripting for Multimedia	MATH 170, CST 201, CST 101 or completion of the Tech/Info ULR or instructor consent	<input type="text"/>	<input type="text"/>
	<input type="checkbox"/>	CST 231 / CST 231L	Problem Solving and Programming with C++	MATH 170, CST 101 or completion of the Tech/Info ULR or instructor consent (This course also fulfills MLO T1 - required for students in the Tech Track)	<input type="text"/>	<input type="text"/>
<b>C5</b> Mathematics	<b>Fulfill any two of five areas:</b> <b>Area 1 - Logic, Area 2 - Combinatorics, Area 3 - Statistics, Area 4 -Linear Algebra, Area 5 - Calculus</b> <b>(MATH 170 fulfills Areas 1&amp;2), (STAT 200 and STAT 250 each fulfill Area 3),</b> <b>(MATH 260 fulfills Area 4), (MATH 150 and 151 together fulfill Area 5), (C5 also fulfills MLO T5)</b>					
	<input type="checkbox"/>	MATH 170	Discrete Mathematics	Passing grade on ELM test, MATH 130 or instructor consent. (This course also fulfills MLO T5)	<input type="text"/>	<input type="text"/>
<b>C6</b> Social & Ethical Dimensions	<input type="checkbox"/>	CST 373	Ethics in Communication and Technology	Instructor consent. (This course also fulfills the Ethics ULR)	<input type="text"/>	<input type="text"/>

<b>AND either: Tech MLOs</b>	<b>(T1, T3 AND T5 are satisfied in the CORE) AND five additional courses from at least two additional MLO's from T2,T4,T6,T7,T8,T9 (max 2),T10</b>					
<b>T2 Software Design Issues</b>	<input type="checkbox"/>	CST 338	Software Design	C/C++, CST 231 or instructor consent.	<input type="text"/>	S <input type="text"/>
<b>T4 Principles of Telecommunications</b>	<input type="checkbox"/>	CST 311	Introduction to Telecommunications	CST 101 or completion of the Tech/Info ULR or instructor consent	<input type="text"/>	<input type="text"/>
<b>T6 Interface Outcome</b>	<input type="checkbox"/>	CST 331	Computer Graphics	C/C++, CST 231 or equivalent, or instr. consent.	<input type="text"/>	F <input type="text"/>
<b>T7 Computing Outcome</b>	<input type="checkbox"/>	CST 336	Internet Programming	UNIX, C/C++, CST 231 or equiv, or instructor consent.	<input type="text"/>	F <input type="text"/>
	<input type="checkbox"/>	CST 363	Intro to Database Management Systems	CST 101 or completion of the Tech/Info ULR, or instructor consent.	<input type="text"/>	S <input type="text"/>
<b>T8 Networking Outcome</b>	<input type="checkbox"/>	CST 312	Telecommunications Standards	CST 311. Recommended: C/C++, Visual Basic, or equivalent programming exp. or instr. consent.	<input type="text"/>	F <input type="text"/>
	<input type="checkbox"/>	CST 313	Telecommunications Management	CST 311 or concurrent enrollment in CST 311, or instructor consent.	<input type="text"/>	S <input type="text"/>
	<input type="checkbox"/>	CST 384	Adv. LAN/WAN Systems Integration	CST 101 or completion of the Tech/Info ULR, CST 311, CST 312, or instructor consent.	<input type="text"/>	S <input type="text"/>
<b>T9 Advanced Math (choose no more than 2)</b>	<input type="checkbox"/>	MATH320	Probability and Statistics	MATH 151 with C or better.	<input type="text"/>	<input type="text"/>
	<input type="checkbox"/>	MATH330	Linear Algebra	MATH 250 with a C or better.	<input type="text"/>	<input type="text"/>
	<input type="checkbox"/>	MATH340	Differential Equations	MATH 250 with a C or better.	<input type="text"/>	<input type="text"/>
	<input type="checkbox"/>	MATH370	Logic and Computation	MATH 151 with a C or better, MATH 170 with a C or better.	<input type="text"/>	<input type="text"/>
<b>T10 Information System Management</b>	<input type="checkbox"/>	CST 334	Introduction to OS with UNIX	C/C++, CST 231 or equivalent, or instr. consent.	<input type="text"/>	<input type="text"/>
	<input type="checkbox"/>	CST 434	Advanced Systems Administration	CST 334 or instructor consent.	<input type="text"/>	S <input type="text"/>
	<input type="checkbox"/>	CST 551	Web Databases and Services	CST 251 or CST 351, and CST 363 or BUS 363, or instructor consent	<input type="text"/>	S <input type="text"/>
<b>~ OR ~ Design MLOs</b>	<b>D1, AND D4, AND D5, AND one course from D2, D3 Intermediate level, AND one course from D2, D3 Practicum level</b>					
<b>D1 Planning &amp; Mgmt of Design Projects</b>	<input type="checkbox"/>	CST 308	Management and Design	CST 201 or instructor consent.	<input type="text"/>	<input type="text"/>
<b>D2,D3 Intermediate Interactive Media, Communication through a Variety of Electronic Delivery Systems (choose one)</b>	<input type="checkbox"/>	CST 304	Publication Design	CST 328 or instructor consent.	<input type="text"/>	F <input type="text"/>
	<input type="checkbox"/>	CST 305	Modeling and Animation	CST 328 or instructor consent.	<input type="text"/>	F <input type="text"/>
	<input type="checkbox"/>	CST 321	Multimedia Game Design I	CST 308, CST 328, or instructor consent.	<input type="text"/>	F <input type="text"/>
	<input type="checkbox"/>	CST 351	Web Design	CST 308 and CST 328, or instructor consent.	<input type="text"/>	F <input type="text"/>
<b>D2,D3 Practicum Interactive Media, Communication through a Variety of Electronic Delivery Systems (choose one)</b>	<input type="checkbox"/>	CST 404	Publication Workshop	CST 304 or instructor consent.	<input type="text"/>	S <input type="text"/>
	<input type="checkbox"/>	CST 405	Animation Workshop	CST 305 or instructor consent.	<input type="text"/>	S <input type="text"/>
	<input type="checkbox"/>	CST 421	Multimedia Game Design II	CST 321 or instructor consent.	<input type="text"/>	S <input type="text"/>
	<input type="checkbox"/>	CST 441	Adv Instr. Design	CST 341 or instructor consent.	<input type="text"/>	S <input type="text"/>
	<input type="checkbox"/>	CST 451	Web Production	CST 201, CST 308, CST 328, CST 351 or equivalent, or instructor consent.	<input type="text"/>	S <input type="text"/>
<b>D4 Instructional Technology Principles</b>	<input type="checkbox"/>	CST 341	Introduction to Instructional Design	Instructor consent.	<input type="text"/>	<input type="text"/>
<b>D5 Aesthetic &amp; Design Principles</b>	<input type="checkbox"/>	CST 328	Digital Art and Design	CST 201 or instructor consent. (This course also fulfills the Creative and Artistic Expression ULR)	<input type="text"/>	<input type="text"/>

~ OR ~ <b>Custom MLOs</b>		An approved custom plan of at least five courses fulfilling at least three MLO's from: (T2, T4, T6, T7, T8, T9, T10, D1-D5)					
<b>List chosen MLO's</b>	Requires Faculty Advisor Custom Plan Approval _____ Date _____						
	<b>Course</b>	<b>Custom Pathway Justification (attach add'l pages if needed)</b>			<b>Alternate Pathway</b>	<b>Term</b>	
	<input type="checkbox"/>	<input type="text"/>				<input type="text"/>	<input type="text"/>
	<input type="checkbox"/>	<input type="text"/>				<input type="text"/>	<input type="text"/>
	<input type="checkbox"/>	<input type="text"/>				<input type="text"/>	<input type="text"/>
	<input type="checkbox"/>	<input type="text"/>				<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>				<input type="text"/>	
~ AND ~ <b>Advanced MLOs</b>		<b>Fulfill A1, A2, A3, A4, A6 AND A5 AND A7</b>					
<b>A1, A2, A3, A4, A6</b> (all four courses required)	<input type="checkbox"/>	CST 400	Capstone Project Planning	CST 300, and Senior standing in the TMAC major or instructor consent.	<input type="text"/>	<input type="text"/>	
	<input type="checkbox"/>	CST 496	Capstone Lecture Directed Study	Concurrent enrollment in CST 400	<input type="text"/>	<input type="text"/>	
	<input type="checkbox"/>	CST 401	Capstone Lab	CST 400 or instructor consent.	<input type="text"/>	<input type="text"/>	
	<input type="checkbox"/>	CST 496	Capstone Lab Directed Study	Concurrent enrollment in CST 401	<input type="text"/>	<input type="text"/>	
<b>A5</b> Service Learning	<input type="checkbox"/>	CST 361S	Technology Tutors	CST 101 or completion of the Tech/info ULR or instructor consent; Junior or Senior standing. (Fulfills the Culture and Equity ULR/GLO and the Service Learning GLO)	<input type="text"/>	<input type="text"/>	
<b>A7</b> TMAC Elective*	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	*Any upper division (300 or 400 level) CST course	<input type="text"/>	<input type="text"/>	

# ILP Worksheet

[illegible]

## Additional Requirements:

**At least 9 units of upper division ULR/GE/GLO credit (must be taken in the junior or senior year to fulfill the requirement):**

<input type="checkbox"/>	CST 300 (4 units)	<input type="checkbox"/>	CST 361S (4 units)	<input type="checkbox"/>	CST 373 (4 units)	<input type="checkbox"/>	CST 328 (4 units)
<input type="checkbox"/>	CST 430 (4 units)	<input type="checkbox"/>	Language Assessment (4 units)	<input type="checkbox"/>	Other <input type="text"/>	<input type="checkbox"/>	Other <input type="text"/>

## University Learning Requirements (ULR) Worksheet

University Learning Requirement	ULR courses completed	ULR courses in progress	ULR courses planned	CST courses that fulfill the ULR
Community Participation	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Creative / Artistic Expression	<input type="text"/>	<input type="text"/>	<input type="text"/>	CST 201 CST328, CST226
Democratic Participation	<input type="text"/>	<input type="text"/>	<input type="text"/>	
English Communication A	<input type="text"/>	<input type="text"/>	<input type="text"/>	CST 211
English Communication B	<input type="text"/>	<input type="text"/>	<input type="text"/>	CST 212
Ethics	<input type="text"/>	<input type="text"/>	<input type="text"/>	CST 373
Literature / Popular Culture	<input type="text"/>	<input type="text"/>	<input type="text"/>	CST 271
Mathematics	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Science Content	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Science Methods	<input type="text"/>	<input type="text"/>	<input type="text"/>	
U. S. Histories	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Vibrancy Theory	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Vibrancy Activity	<input type="text"/>	<input type="text"/>	<input type="text"/>	

### Graduate Learning Outcomes

Culture and Equity	<input type="text"/>	<input type="text"/>	<input type="text"/>	CST 361S
Language through 3rd level (4th level if you entered CSUMB with less than 56 units):	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Service Learning	<input type="text"/>	<input type="text"/>	<input type="text"/>	CST 361S
Technology Information	<input type="text"/>	<input type="text"/>	<input type="text"/>	CST 101 CST 102 CST 430

[Additional ILP forms can be found at: http://itcd.csUMB.edu/newsite/students/forms/ILP.pdf](http://itcd.csUMB.edu/newsite/students/forms/ILP.pdf)