



**ARTICULATED TRANSFER PLAN**

**Henry Ford Community College – Pre-Engineering  
 LTU - Bachelor of Science in Biomedical Engineering (Mech. Eng. Option)  
 Based on HFCC 2005-2006 Catalog and LTU 2005-2007 Catalog**

**Henry Ford Community College Courses:**

**Transfer to LTU as:**

<b>Degree Requirements</b>	
<b>Required Core Courses .....(30 credits)</b>	
MATH 180 Calculus 1 .....5	MCS 1414 Calculus 1 .....4
MATH 183 Calculus 2 .....5	MCS 1424 Calculus 2 .....4
MATH 280 Calculus 3.....5	MCS 2414 Calculus 3.....4
MATH 289 Diff. Equations.....4	MCS 2423 Diff. Equations.....3
CHEM 141 Principles of General Chemistry.....5	CHEM 1213 + 1221 Univ. Chem. 1 + Lab.....4
PHYS 231 Engineering Physics.....5	PHY 2413 + 2421 Univ. Physics 1 + Lab.....4
PHYS 232 Engineering Physics 2.....5	PHY 2423 + 2431 Univ. Physics 2 + Lab.....4
BEC 133 or 151 or 152 Economics.....3	SSC 2303 Basic Economics.....3
<b>Humanities Course Selection (Select Two Courses).....6</b>	
ART 121, 122, 123, 124, 135, 223, 224, ENG 139, 231, 233, 234, 235, 237, 239, 241, 243, 245, 248, MUS 132, 133, 232, 233, PHIL 131, 133, 135, 137, STH 131, 138	LLT 1213 World Masterpieces 1.....3 LLT 1223 World Masterpieces 2.....3
<b>Social Science Course Selection .....(3 credit hours)</b>	
ANTH 131,151,152, HIST 111, 112, 113, 151,152, 157, 160, 162, 165, 225, 240, 255 , GEOG 132, PHIL 139, SOC 131,151, 152, 251, 254, SWC 131, POLS 131, 132, 135, 152, 153, 154, 155, PSY 131, 152, 161, 253, 254, 256, SSC 235, WR 131	SSC 2413 Foundations of the American Experience.....3
<b>Elective Courses ..... (12-15 credit hours)</b>	
BIO 131 or 150 Introductory Biology/ Organisms.....4	BIO 1213 + 1221 Biology 1 + Lab.....4
BIO 152 Biology: Cells/ Molecular Biology .....4	BME XXX3 Cell Biology.....3
CHEM 142 Principles of Chemistry 2.....3-4	No Transferable Course
CIS 170 C Programming.....3	No Transferable Course
ENGR 130 Intro to Engineering.....3	EGE 1012 Intro to Engineering.....2
ENGR 201 Science of Materials.....3	No Transferable Courses
ENGR 232 Statics.....3	EGE 2013 Statics.....3
ENGR 233 Dynamics.....3	EME 3043 Dynamics.....3
<b>American Society Events Requirement.....(3 credit hours)</b>	
ENG 235 American Lit Before 1900.....3	
ENG 236 American Autobiography.....3	
CRJ 131 Intro to Law Enforcement.....3	
SOC 131 Intro to Sociology.....3	
POLS 131 Intro to Political Science.....3	SSC 2423 Development of the American Experience.....3
<b>Additional Transfer Courses .....(6 credit hours)</b>	
ENG 131 or 132 Composition.....3	COM 1103 English Composition.....3
ENG 135 Business & Technical Writing.....3	COM 2103 Tech. & Prof. Com.....3

**NOTE: See an HFCC counselor for transfer information.**



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**LTU Courses:**

<p><b>Courses to Complete BSBioMed at LTU:</b></p> <p><b>Engineering/ BioMed Core (35 credit hours)</b>          EGE 1201 &amp; 1301 ECAL Courses.....2          EEE 2213 + 2211 Digital Electronics.....4          BME 3001 Intro to Projects .....1          BME 3103 IMG &amp; Ultrasonic .....3          BME 3203 Physiology .....3          BME 3213 Anatomy .....3          BME 3313 Biomaterials.....3          BMR 4003 Intro to MEMS .....3          BME 3022 Projects 1.....2          BME 4012 Projects 2.....3          BME XXX3 Radiation.....3          CHM 3403 Biochemistry.....3</p> <p><b>Mechanical Engineering Core (25 credit hours)</b>          EME 3023 Manufacturing Processes.....3          EME 3003 Thermodynamics .....3          EME 3013 Mechanics/ Materials.....3          EME 3153 Machines &amp; Controls.....3          EME 3161 Intro to EE Lab.....1          EME 2123 Circuits &amp; Electronics.....3          BME/ EME 4XX3 Electives.....9</p>	<p><b>Additional Arts &amp; Sciences Courses (6 credit hours)</b>          MCS 3403 Prob. &amp; Stats. ....3          MCS 3413 Advanced Engineering Math.....3</p> <p>COM 1001 (University Seminar) Satisfied.</p>
	<p><b>Maximum Transferable HFCC Credits ..... 63</b>  <b>Minimum Credits at LTU ..... 68</b>          **Minimum Credits to Graduate: 131**</p>