

Drafting Technology	Architectural Emphasis						Mechanical Emphasis							
	DRF 208 Residential Buildings	DRF 209 Architectural Desktop	DRF 210 Commercial Buildings	CST 122 Construction Codes	DRF 211 Mechanical Systems and Envir Design	DRF 212 Site Plans & Landscape Drafting	DRF 232 Mechanical Design	DRF 245 Inventor	DRF 247 Pipe Drafting	DRF 233 Geometric Tolerancing	DRF 246 Descriptive Geometry Sheet Metal Layout	DRF 234 Power Trains	DRF 203 Electrical Drafting	DRF 248 Hydraulics Drafting
Associate Degree (103 Total Credits)	4	3	4	2	4	3	4	3	1	4	3	4	2	1
One-Year Certificate (45 Total Credits)														
Program Learning Outcomes														
Demonstrate employability skills required for initial employment and advancement in the industry that include: attendance, proper attire, customer relations, following directions, working in teams, and understanding work rules and ethics.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Demonstrate basic graphical literacy.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Demonstrate basic competence in the use of at least one CAD software program: setup a drawing, create and modify text and geometry, use associative dimensioning correctly, create, store and use blocks or symbols, manage object properties including linetype and layer, create objects in three dimensions, and print or plot drawings using a correct scale.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Explain basic standard practices in architectural and mechanical drafting.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Use appropriate library and information resources to research professional issues and support lifelong learning.	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Interpret the concepts of a problem-solving task and translate them into mathematical language, and solve using mathematical operations.	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Core Abilities														
Communicate effectively.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Think critically and solve problems effectively.	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Increase understanding of the relationship between self and community, including self-awareness and personal responsibility.														
Explore academic disciplines of liberal arts, social sciences, and physical sciences.														
Learning College Principles														
Learners are active partners in the learning process.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Learners are self-directed.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Multiple learning options for diverse learners.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Learning is promoted across organizational boundaries.														
Learning is substantive and documented.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Assessment Methods														
Technical Skill Performance Observation/Evaluation	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Employability Skills Evaluation	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Group Project														
Journaling														
Library Research														
Oral Report/Presentation	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Peer Assessment														
Portfolio	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Pre and Post Test														
Project Evaluation	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Quizzes														
Self Assessment														
Written Report														
Written Tests/Examinations														

P = this is a primary course for meeting the program learning outcome, core ability, learning college principle, or assessment method.

S = this course meets some of the program learning outcome, core ability, learning college principle or assessment method.

Advanced Technology Division – Assessment Plans 9/22/05

Drafting

Program Learning Outcomes/Goals	Assessment Indicators
1) Demonstrate employability skills required for initial employment and advancement in the industry that include: attendance, proper attire, customer relations, following directions, working in teams, and understanding work rules and ethics.	80% of the first year students will qualify for the "select student" status by receiving a recommendation from a full-time contracted faculty member. 90% percent of the second year students will complete their programs in the "entry level employee" status. Criteria to qualify for the "select" status will be determined and published by the faculty prior to the start of the academic year.
2) Demonstrate safe work practices and equipment usage while performing operations in a workstation environment.	90% of all students will pass a safety written and demonstration test.
3) Demonstrate basic competence in the use of at least one CAD software program: setup a drawing, create and modify text and geometry, use associative dimensioning correctly, create, store and use blocks or symbols, manage object properties including line type and layer, create objects in three dimensions, and print or plot drawings using a correct scale.	90% of the students who complete the program will have gained the necessary competencies to obtain entry level employment in a drafting related occupation.
4) Explain basic standard practices in architectural and mechanical drafting.	90% of the students who complete the program will pass an industry certification examination.
Interpret the concepts of a problem-solving task and translate them into mathematical language, and solve using mathematical operations.	90% of the program completers will pass a final program computations examination with a 70% or better score.
Demonstrate technical abilities in researching, accessing and interpreting written, computer program or web-based reference materials for construction and carpentry.	All students will conduct research with citations in a written report in both the first and second year of the program.

Program Operating Analysis - FY 2006

Drafting

	Fiscal Year 2006	Expected Model	Actual	Difference	IRAP	Analysis
1	Enrollment	M				High, Medium or Low Cost Program
2	Reimbursable Student FTE	79.62	70.87		69.6	510 contact hours = 1 R-SFTE
3	Credit Hour Student FTE	52.80	47.00		75.5	45 Credit Hours = 1 CrdHr-SFTE
4	Staffing					
5	Full-time Equivalent Faculty	2.640	2.000	-24%		Actual = Enrollment Reports FY06
6	Part-time Equivalent Faculty	0.660	1.300	97%		Actual = Enrollment Reports FY06
7	Total Faculty FTE	3.300	3.300	0%		
8	Budget					
9	FT Faculty Dollars	161,703	110,122	-32%		Actual = Banner FY06, Period 14
10	PT Faculty Dollars	26,277	68,360	160%		Actual = Banner FY06, Period 14
11	Lab Assistant Dollars	13,200	-	-		Actual = Banner FY06, Period 14
12	OPE	101,335	86,481	-15%		Actual = Banner FY06, Period 14
13	Materials and Supplies	9,900	7,088	-28%		Actual = Banner FY06, Period 14
14	Equipment	13,200	-	-		Actual = Banner FY06, Period 14
15	Direct Instruction Costs	325,614	272,051	-16%	268,999	Expenses are lower than expected.
16	Operating Ratios					
17	R-SFTE/Total Faculty FTE	24.13	21.48	-11%		
18	CrdHr-SFTE/Total Faculty FTE	16.00	14.24	-11%		Faculty are serving fewer students.
19	Cost / R-SFTE	4,090	3,839	-6%	3,860	
20	Cost / CrdHr-SFTE	6,167	5,788	-6%		Cost per student is lower than expected.
21						
22	Revenue		Revenue	Difference	IRAP	
23	Tuition		136,418		225,789	FY06 Tuition Rate x CrdHr SFTE x 45
24	Program Fees (Differential)		-		-	Credit Hours x \$27.92
25	Public Support / CrdHr SFTE	3,807	269,802		265,391	RFTE*\$3,807
26	Other Instructional Revenue					
27	Total Operating Revenue		406,220		491,180	Contribution to Total College Revenue
28	Instructional Function Revenue	54.5%	221,390			Based on Model's Functional Cost Ratios
29	Direct Instruction Revenue	83.3%	184,414	-32%		Expenses are Greater than Revenue
30						Faculty, Lab Assts, M&S, Equip Costs
31	Indirect Instruction Revenue	16.7%	36,975			Portion of indirect instructional costs
32	Other Functions Revenue	45.5%	184,830			Student Svs, College Svs, etc.

