

Construction Technology

Degrees:

AAS	*Construction Technology (* AAS degree not offered at Jefferson)	60-63
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Diplomas:	Construction Carpenter	48-51
	Finish Carpenter	27-30

Certificate:	Acoustical Carpenter	11
	Carpenter Helper	17
	Construction Forms Helper	18
	Dry Waller	8
	Painter, Interior Finish	6
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	Residential Carpenter	32
	Residential Roofer	12
	Residential Site Layout Assistant	15
	Rough Carpenter	22
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Description:

The Construction Technology program is designed to prepare students for entry level positions in the construction industry. Residential and light commercial construction applications are taught. This program includes instructional units in blueprint reading, building site layout procedures, foundation systems, light framing construction methods, exterior and interior finish systems, concrete forming systems and construction safety. Units of instruction are designed to include lecture and practical experience in the lab or on-site projects. This program also offers an excellent prerequisite for students that plan to pursue a career in areas such as construction management, civil engineering or architectural design.

Progression in the Construction Technology Program is contingent upon achievement of a grade of “C” or better in each technical and mathematics course and maintenance of a 2.0 cumulative grade point average or better (on a 4.0 scale).

Implementation: Fall 2007

Competencies:

AAS: Construction Technology

Upon completion of this program, the graduate can:

General Education Competencies:

- I. Communicate Effectively
 - 1. Read and listen with comprehension.
 - 2. Speak and write clearly using standard English.
 - 3. Interact cooperatively with others using both verbal and non-verbal means.
 - 4. Demonstrate information processing through basic computer skills.
- II. Think Critically
 - 1. Make connections in learning across the disciplines and draw logical conclusions.
 - 2. Demonstrate problem solving through interpreting, analyzing, summarizing, and/or integrating a variety of materials.
 - 3. Use mathematics to organize, analyze, and synthesize data to solve a problem.

- III. Learn Independently
 - 1. Use appropriate search strategies and resources to find, evaluate, and use information.
 - 2. Make choices based upon awareness of ethics and differing perspectives/ideas.
 - 3. Apply learning in academic, personal, and public situations.
 - 4. Think creatively to develop new ideas, processes, or products.
- IV. Examine Relationships in Diverse and Complex Environments
 - 1. Recognize the relationship of the individual to human heritage and culture.
 - 2. Demonstrate an awareness of the relationship of the individual to the biological and physical environment.
 - 3. Develop an awareness of self as an individual member of a multicultural global community.

Technical Competencies:

- 1. Interpret symbols, views, sections, details, and material lists found on architectural working drawings, building materials, specifications lists, and construction dimensioning systems and charts/schedules.
- 2. Identify the types, grades, sizes, and standards of building materials including the types of fasteners and their correct uses.
- 3. Utilize and maintain commonly used hand and power tools.
- 4. Prepare materials, calculate the cost for a building site, and lay out a site with a transit, locating property lines and corners.
- 5. Calculate the amount of concrete needed for footing and foundation walls and construct different types of foundations and forms.
- 6. Demonstrate floor framing, lay out and construction of floor frames.
- 7. Cut and install floor and wall framing members according to plans and specifications.
- 8. Lay out, cut, and install ceiling joists, rafters, roof decking, and roof coverings.
- 9. Demonstrate an understanding of basic concepts of building trim, gypsum wallboard, paneling, base, ceiling and wall molding with instruction on acoustical ceilings and insulation, wood floors, tile, inlaid adhesive and tools of the flooring trade.
- 10. Demonstrate the exterior finishing of a house with emphasis on cost control, speed, and precision.

Diploma: Construction Carpenter

Competencies will be met at the level appropriate to the credential.

General Education Competencies:

- I. Communicate Effectively
 - 1. Read and listen with comprehension.
 - 2. Speak and write clearly using standard English.
 - 3. Interact cooperatively with others using both verbal and non-verbal means.
 - 4. Demonstrate information processing through basic computer skills.
- II. Think Critically
 - 1. Make connections in learning across the disciplines and draw logical conclusions.
 - 2. Demonstrate problem solving through interpreting, analyzing, summarizing, and/or integrating a variety of materials.
 - 3. Use mathematics to organize, analyze, and synthesize data to solve a problem.
- III. Learn Independently
 - 1. Use appropriate search strategies and resources to find, evaluate, and use information.
 - 2. Make choices based upon awareness of ethics and differing perspectives/ideas.
 - 3. Apply learning in academic, personal, and public situations.
 - 4. Think creatively to develop new ideas, processes, or products.
- IV. Examine Relationships in Diverse and Complex Environments
 - 1. Recognize the relationship of the individual to human heritage and culture.
 - 2. Demonstrate an awareness of the relationship of the individual to the biological and physical environment.
 - 3. Develop an awareness of self as an individual member of a multicultural global community.

Technical Competencies:

- 1. Interpret symbols, views, sections, details, and material lists found on architectural working drawings, building materials, specifications lists, and construction dimensioning systems and charts/schedules.

2. Identify the types, grades, sizes, and standards of building materials including the types of fasteners and their correct uses.
3. Utilize and maintain commonly used hand and power tools.
4. Prepare materials, calculate the cost for a building site, and lay out a site with a transit, locating property lines and corners.
5. Calculate the amount of concrete needed for footing and foundation walls and construct different types of foundations and forms.
6. Demonstrate floor framing, lay out and construction of floor frames.
7. Cut and install floor and wall framing members according to plans and specifications.
8. Lay out, cut, and install ceiling joists, rafters, roof decking, and roof coverings.
9. Demonstrate an understanding of basic concepts of building trim, gypsum wallboard, paneling, base, ceiling and wall molding with instruction on acoustical ceilings and insulation, wood floors, tile, inlaid adhesive and tools of the flooring trade.
10. Demonstrate the exterior finishing of a house with emphasis on cost control, speed, and precision

Diploma: Finish Carpenter

Competencies will be met at the level appropriate to the credential.

General Education Competencies:

- I. Communicate Effectively
 1. Read and listen with comprehension.
 2. Speak and write clearly using standard English.
 3. Interact cooperatively with others using both verbal and non-verbal means.
 4. Demonstrate information processing through basic computer skills.
- II. Think Critically
 1. Make connections in learning across the disciplines and draw logical conclusions.
 2. Demonstrate problem solving through interpreting, analyzing, summarizing, and/or integrating a variety of materials.
 3. Use mathematics to organize, analyze, and synthesize data to solve a problem.
- III. Learn Independently
 1. Use appropriate search strategies and resources to find, evaluate, and use information.
 2. Make choices based upon awareness of ethics and differing perspectives/ideas.
 3. Apply learning in academic, personal, and public situations.
 4. Think creatively to develop new ideas, processes, or products.
- IV. Examine Relationships in Diverse and Complex Environments
 1. Recognize the relationship of the individual to human heritage and culture.
 2. Demonstrate an awareness of the relationship of the individual to the biological and physical environment.
 3. Develop an awareness of self as an individual member of a multicultural global community.

Technical Competencies:

1. Demonstrate proper use of tools and equipment needed to paint walls and ceilings.
2. Demonstrate an understanding of products available to paint walls and ceilings.
3. Finish trim to specifications for stains, enamels, and clear finishes.
4. Prepare surfaces of walls and ceilings for wall coverings.
5. Demonstrate procedures for hanging coverings, matching seams, working with intricate patterns and border applications, and mitering corners with matching patterns and creative designs.
6. Demonstrate cutting and hanging drywall.
7. Estimate drywall surface materials for specific areas.
8. Finish drywall using tape, corner bead, and joint compound.
9. Demonstrate layout and planning installation of acoustical ceilings and their components.
10. Fabricate walls and ceilings using metal studs.
11. Design and fabricate decorative ceiling layouts with angle and terraced effects for vaulted and other creative arrangements of walls and ceilings.
12. Demonstrate an understanding of the process involved in managing a job to insure successful completion of jobs.
13. Estimate, purchase, and develop contracts to ensure profit margins.

Certificate: Acoustical Carpenter

Upon completion of this program, the graduate can:

1. Demonstrate layout and planning installation of acoustical ceilings and their components.
2. Fabricate walls and ceilings using metal studs.
3. Design and fabricate decorative ceiling layouts with angle and terraced effects for vaulted and other creative arrangements of walls and ceilings.

Certificate: Carpenter Helper

Upon completion of this program, the graduate can:

1. Interpret symbols, views, sections, details, and material lists found on architectural working drawings, building materials, specifications lists, and construction dimensioning systems and charts/schedules.
2. Identify the types, grades, sizes, and standards of building materials including the types of fasteners and their correct uses.
3. Utilize and maintain commonly used hand and power tools.
4. Prepare materials, calculate the cost for a building site, and lay out a site with a transit, locating property lines and corners.
5. Calculate the amount of concrete needed for footing and foundation walls and construct different types of foundations and forms.
6. Demonstrate floor framing, lay out and construction of floor frames.
7. Cut and install floor and wall framing members according to plans and specifications.

Certificate: Construction Forms Helper

Upon completion of this program, the graduate can:

1. Identify the types, grades, sizes, and standards of building materials including the types of fasteners and their correct uses.
2. Utilize and maintain commonly used hand and power tools.
3. Demonstrate an understanding of heavy and commercial construction including rigging, mall forms, vertical piers and columns, on grade curb forms, horizontal beam forms, above grade slab systems, fire proof encasement forms, stair forms, and bridge/bridge deck forms.

Certificate: Dry Waller

Upon completion of this program, the graduate can:

1. Demonstrate cutting and hanging drywall.
2. Estimate drywall surface materials for specific areas.
3. Finish drywall using tape, corner bead, and joint compound.

Certificate: Painter, Interior Finish

Upon completion of this program, the graduate can:

1. Demonstrate proper use of tools and equipment needed to paint walls and ceilings.
2. Demonstrate an understanding of products available to paint walls and ceilings.
3. Finish trim to specifications for stains, enamels, and clear finishes.

Certificate: Painter, Paper Hanger

Upon completion of this program, the graduate can:

1. Demonstrate proper use of tools and equipment needed to paint walls and ceilings.
2. Demonstrate an understanding of products available to paint walls and ceilings.
3. Finish trim to specifications for stains, enamels, and clear finishes.
4. Prepare surfaces of walls and ceilings for wall coverings.
5. Demonstrate procedures for hanging coverings, matching seams, working with intricate patterns and border applications, and mitering corners with matching patterns and creative designs.

Certificate: Residential Carpenter

Upon completion of this program, the graduate can:

1. Interpret symbols, views, sections, details, and material lists found on architectural working drawings, building materials, specifications lists, and construction dimensioning systems and charts/schedules.
2. Identify the types, grades, sizes, and standards of building materials including the types of fasteners and their correct uses.
3. Utilize and maintain commonly used hand and power tools.
4. Prepare materials, calculate the cost for a building site, and lay out a site with a transit, locating property lines and corners.
5. Calculate the amount of concrete needed for footing and foundation walls and construct different types of foundations and forms.
6. Demonstrate floor framing, lay out and construction of floor frames.
7. Cut and install floor and wall framing members according to plans and specifications.
8. Lay out, cut, and install ceiling joists, rafters, roof decking, and roof coverings.
9. Demonstrate an understanding of basic concepts of building trim, gypsum wallboard, paneling, base, ceiling and wall molding with instruction on acoustical ceilings and insulation, wood floors, tile, inlaid adhesive and tools of the flooring trade.
10. Demonstrate the exterior finishing of a house with emphasis on cost control, speed, and precision.
11. Lay out and plan the construction of base and wall cabinets.
12. Construct and install cabinets and special units.
13. Sand and prepare wood surfaces for finishing.

Certificate: Residential Roofer

Upon completion of this program, the graduate can:

1. Interpret symbols, views, sections, details, and material lists found on architectural working drawings, building materials, specifications lists, and construction dimensioning systems and charts/schedules.
2. Identify the types, grades, sizes, and standards of building materials including the types of fasteners and their correct uses.
3. Utilize and maintain commonly used hand and power tools.
4. Lay out, cut, and install ceiling joists, rafters, roof decking, and roof coverings.

Certificate: Residential Site Layout Assistant

Upon completion of this program, the graduate can:

1. Identify the types, grades, sizes, and standards of building materials including the types of fasteners and their correct uses.
2. Utilize and maintain commonly used hand and power tools.
3. Prepare materials, calculate the cost for a building site, and lay out a site with a transit, locating property lines and corners.
4. Calculate the amount of concrete needed for footing and foundation walls and construct different types of foundations and forms.

Certificate: Rough Carpenter

Upon completion of this program, the graduate can:

1. Interpret symbols, views, sections, details, and material lists found on architectural working drawings, building materials, specifications lists, and construction dimensioning systems and charts/schedules.
2. Identify the types, grades, sizes, and standards of building materials including the types of fasteners and their correct uses.
3. Utilize and maintain commonly used hand and power tools.
4. Prepare materials, calculate the cost for a building site, and lay out a site with a transit, locating property lines and corners.
5. Calculate the amount of concrete needed for footing and foundation walls and construct different types of foundations and forms.
6. Demonstrate floor framing, lay out and construction of floor frames.
7. Cut and install floor and wall framing members according to plans and specifications.
8. Lay out, cut, and install ceiling joists, rafters, roof decking, and roof coverings.

Certificate: Basic Carpenter

Upon completion of this program, the graduate can:

1. Identify the types, grades, sizes and standards of building materials including the types of fasteners and their correct uses.
2. Utilize and maintain commonly used hand and power tools.

Outlines:

**AAS:
Construction Technology**

General Education Requirements:

		Writing/Accessing Information	3
MT	105	Business Mathematics OR higher level of Mathematics	3
		Social Interaction	3
		Heritage/Humanities/Foreign Languages	3
		Natural/Applied Science	3
		Oral Communication	3
		Computer Literacy	0-3
		Subtotal	18-21

Note: Computer Literacy must be demonstrated either by competency exam or by completing an approved computer literacy course.

Technical Requirements:

BRX	220	Blueprint Reading For Construction	3
CAR	126	Intro to Construction	3
CAR	127	Intro to Construction-Lab	1
CAR	140	Surveying & Foundations	3
CAR	141	Surveying & Foundations-Lab	2
CAR	190	Light Frame Construction I	3
CAR	191	Light Frame Const. I-Lab	2
CAR	196	Light Frame Construction II	3
CAR	197	Light Frame Const. II-Lab	2
CAR	200	Light Frame Construction III	3
CAR	201	Light Frame Const. III-Lab	2
CAR	298	Practicum in Construction OR	2
CAR	299	Co-op in Construction	(2)
ISX	100	Industrial Safety	3
		Technical Electives*	10
		Subtotal:	42
		Total:	60-63

*Technical Electives: (This list is not all inclusive. Other courses [technical or general education] may be taken as approved by Construction Technology instructor.)

BRX	120	Basic Blueprint Reading	3
CAR	150	Construction Formwork	3
CAR	151	Construction Formwork - Lab	2
CAR	198	Special Topics in Construction	1 - 6
CAR	240	Light Frame Construction IV	3
CAR	241	Light Frame Const. IV-Lab	2

**Diploma:
Construction Carpenter**

General Education Requirements:

Area 1:	Writing/Accessing Information, Oral Communications, Humanities, or Heritage	3
Area 2:	Social Science, Behavioral Science, Natural or	

Area 3:	Applied Science, or Mathematics	3
	Computer Literacy course or demonstrated competency	0-3
	Subtotal	6-9

Note: Computer Literacy must be demonstrated either by competency exam or by completing a computer literacy course.
Note: WPP200 or EFM 100 may be taken for 3 credit hours of Social Interaction to meet the Diploma General Education requirements.

Technical Requirements:

BRX	220	Blueprint Reading for Construction	3
CAR	126	Intro to Construction	3
CAR	127	Intro to Construction-Lab	1
CAR	140	Surveying & Foundations	3
CAR	141	Surveying & Foundations-Lab	2
CAR	190	Light Frame Construction I	3
CAR	191	Light Frame Const. I –Lab	2
CAR	196	Light Frame Construction II	3
CAR	197	Light Frame Const. II–Lab	2
CAR	200	Light Frame Construction III	3
CAR	201	Light Frame Const. III–Lab	2
CAR	298	Practicum in Construction OR	2
CAR	299	Co-op in Construction	(2)
ISX	100	Industrial Safety	3
		Technical Electives*	10
		Subtotal:	42
		Total:	48-51

*Technical Electives: (This list is not all inclusive. Other courses [technical or general education] may be taken as approved by Carpentry instructor.)

BRX	120	Basic Blueprint Reading	3
CAR	150	Construction Formwork	3
CAR	151	Construction Formwork - Lab	2
CAR	198	Special Topics in Construction	1 - 6
CAR	240	Light Frame Construction IV	3
CAR	241	Light Frame Const. IV-Lab	2

Finish Carpenter

General Education Requirements: (6-9 credit hours)

Area 1:	Writing/Accessing Information, Oral Communications, Humanities or Heritage	3
Area 2:	Social Science, Behavioral Science, Natural or Applied Science or Mathematics	3
Area 3:	Computer Literacy course or demonstrated competency	0-3
	Subtotal	6-9 credits

Note: Computer Literacy must be demonstrated either by competency exam or by completing a computer literacy course.
Note: WPP200 or EFM 100 may be taken for 3 credit hours of Social Interactions to meet the Diploma General Education requirements.

Technical Requirements:

INF	105	Introduction to Painting	2
INF	111	Advanced Painting	2
INF	115	Introduction to Wall covering	2
INF	121	Advanced Wall Covering	2
INF	125	Introduction to Drywall	2
INF	131	Advanced Drywall	2
INF	205	Introduction to Acoustical Carpentry	3

INF	211	Advanced Acoustical Carpentry	2
INF	220	Customer Relations	2
INF	298	Practicum (or)	2
CAR	299	Cooperative Education in Construction	(2)
		Subtotal	21
		Total Credits	27-30

**Certificate:
Carpenter Helper**

BRX	220	Blueprint Reading for Construction	3
CAR	126	Intro to Construction	3
CAR	127	Intro to Construction-Lab	1
CAR	140	Surveying & Foundations	3
CAR	141	Surveying & Foundations-Lab	2
CAR	190	Light Frame Construction I – Floors and Walls	3
CAR	191	Light Frame Construction I – Floors and Walls (Lab)	2
		Total Credits	17

Construction Forms Helper

BRX	220	Blueprint Reading for Construction	3
CAR	126	Intro to Construction	3
CAR	127	Intro to Construction-Lab	1
CAR	150	Construction Formwork	3
CAR	151	Construction Formwork - Lab	2
		Electives: (*Suggested Technical Electives)	6
		Total Credits	18

***Suggested Technical Electives:**

(This list is not all inclusive. Other courses [technical or general education] may be taken as approved by Construction Technology Program Coordinator.

BRX	120	Basic Blueprint Reading	(3)
ISX	100	Industrial Safety	(3)
CAR	140	Construction Surveying and Foundation Systems	(3)
CAR	141	Construction Surveying and Foundation Systems-Lab	(2)
CAR	150	Construction Formwork	(3)
CAR	151	Construction Formwork – Lab	(2)
CAR	190	Light Frame Construction I- Floors and Walls	(3)
CAR	191	Light Frame Construction I- Floors and Walls-Lab	(2)
CAR	196	Light Frame Construction II- Ceilings and Roofs	(3)
CAR	197	Light Frame Construction II- Ceilings and Roofs-Lab	(2)
CAR	198	Special Topics in Construction	(1 – 6)
CAR	200	Light Frame Construction III- Exterior and Interior Finish	(3)
CAR	201	Light Frame Construction III- Exterior and Interior Finish-Lab	(2)
CAR	240	Light Frame Construction IIV – Cabinetry and Trim Carpentry Techniques	(3)
CAR	241	Light Frame Construction IIV – Cabinetry and Trim Carpentry Techniques (Lab)	(2)

***Suggested General Education Electives:**

TEC	200	Technical Communications	(3)
COM	181	Basic Public Speaking	(3)
COM	252	Intro to Interpersonal Communications	(3)
MT	105	Business Mathematics	(3)
MT	110	Applied Mathematics	(3)
MT	115	Technical Mathematics	(3)
PHX	150	Introductory Physics	(3)
EFM	100	Personal Financial Management	(3)

WPP	200	Workplace Principles	(3)
CPU	100	Introduction to Computers	(3)
CPU	150	Computer Fundamentals	(3)

Residential Carpenter

BRX	220	Blueprint Reading for Construction	3
CAR	126	Intro to Construction	3
CAR	127	Intro to Construction-Lab	1
CAR	140	Surveying & Foundations	3
CAR	141	Surveying & Foundations-Lab	2
CAR	190	Light Frame Construction I – Floors and Walls	3
CAR	191	Light Frame Construction I – Floors and Walls (Lab)	2
CAR	196	Light Frame Construction II – Ceilings and Roofs	3
CAR	197	Light Frame Construction II – Ceilings and Roofs (Lab)	2
CAR	200	Light Frame Construction III – Exterior and Interior Finish	3
CAR	201	Light Frame Construction III – Exterior and Interior Finish (Lab)	2
CAR	240	Light Frame Construction IV – Cabinetry and Trim Carpentry Techniques	3
CAR	241	Light Frame Construction IV – Cabinetry and Trim Carpentry Techniques (Lab)	2
Total Credits			32

Residential Roofer

BRX	220	Blueprint Reading for Construction	3
CAR	126	Intro to Construction	3
CAR	127	Intro to Construction-Lab	1
CAR	196	Light Frame Construction II – Ceilings and Roofs	3
CAR	197	Light Frame Construction II – Ceilings and Roofs (Lab)	2
Total Credits			12

Residential Site Layout Assistant

CAR	126	Intro to Construction	3
CAR	127	Intro to Construction-Lab	1
CAR	140	Surveying & Foundations	3
CAR	141	Surveying & Foundations-Lab	2
Electives: *Suggested Technical Electives			6
Total Credits			15

*Suggested Technical Electives:

(This list is not all inclusive. Other courses (technical or general education) may be taken as approved by Construction Technology Program Coordinator.

BRX	120	Basic Blueprint Reading	(3)
BRX	220	Blueprint Reading for Construction	(3)
ISX	100	Industrial Safety	(3)
CAR	150	Construction Formwork	(3)
CAR	151	Construction Formwork-Lab	(2)
CAR	190	Light Frame Construction I-Floors and Walls	(3)
CAR	191	Light Frame Construction I-Floors and Walls	(2)
CAR	196	Light Frame Construction II-Ceilings and Walls	(3)
CAR	197	Light Frame Construction II-Ceilings and Walls-Lab	(2)
CAR	198	Special Topics in Construction	(1-6)
CAR	200	Light Frame Construction III-Exterior and Interior Finish	(3)
CAR	201	Light Frame Construction III-Exterior and Interior Finish-Lab	(2)
CAR	240	Light Frame Construction IV-Cabinetry and Trim Carpentry Techniques	(3)
CAR	241	Light Frame Construction IV-Cabinetry and Trim Carpentry Techniques-Lab	(2)

***Suggested General Education Electives:**

TEC	200	Technical Communications	(3)
COM	181	Basic Public Speaking	(3)
COM	252	Intro to Interpersonal Communications	(3)
MT	105	Business Mathematics	(3)
MT	110	Applied Mathematics	(3)
MT	115	Technical Mathematics	(3)
PHX	150	Introductory Physics	(3)
EFM	100	Personal Financial Management	(3)
WPP	200	Workplace Principles	(3)
CPU	100	Introduction to Computers	(3)
CPU	150	Computer Fundamentals	(3)

Rough Carpenter

BRX	220	Blueprint Reading for Construction	3
CAR	126	Intro to Construction	3
CAR	127	Intro to Construction-Lab	1
CAR	140	Surveying & Foundations	3
CAR	141	Surveying & Foundations-Lab	2
CAR	190	Light Frame Construction I – Floors and Walls	3
CAR	191	Light Frame Construction I – Floors and Walls (Lab)	2
CAR	196	Light Frame Construction II – Ceilings and Roofs	3
CAR	197	Light Frame Construction II – Ceilings and Roofs (Lab)	2
		Total Credits	22

Basic Carpenter

CAR	126	Intro to Construction	3
CAR	127	Intro to Construction-Lab	1
		Electives: (Any five [5] additional credits, program or otherwise).	5
		Total Credits	9

Acoustical Carpenter

INF	205	Introduction to Acoustical Carpentry	3
INF	211	Advanced Acoustical Carpentry	2
		Electives: *Technical Electives	6
		Total Credits	11

Dry Waller

INF	125	Introduction to Drywall	2
INF	131	Advanced Drywall	2
		Electives: *Technical Electives	4
		Total Credits	8

Painter, Interior Finish

INF	105	Introduction to Painting	2
INF	111	Advanced Painting	2
		Electives: *Technical Electives	2
		Total Credits	6

Painter, Paper Hanger

INF	125	Introduction to Painting	2
INF	111	Advanced Painting	2
INF	115	Introduction to Wallcovering	2
INF	121	Advanced Wallcovering	2

Total Credits

8

Dates of Actions:

Approved:

Revised: May 2005, December 2006