

Construction Technology

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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.

The Green Building Technology certificate familiarizes students with the principles of green building technologies and methods of sustainable construction. Emphasis is placed on green materials used in the construction of buildings along with alternative and/or renewable energy systems. Covers both *Leadership in Energy and Environmental Design (LEED)* and the *National Green Building Standard's* rating systems for the certification process of green buildings.

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 2013

Competencies:

AAS: Construction Technology

Upon completion of this program, the graduate can:

General Education Competencies:

Students should prepare for twenty-first century challenges by gaining:

- A. Knowledge of human cultures and the physical and natural worlds, through study in the sciences and mathematics, social sciences, humanities, histories, languages, and the arts.
- B. Intellectual and practical skills, including
 - inquiry and analysis
 - critical and creative thinking
 - written and oral communication
 - quantitative literacy
 - information literacy

- teamwork and problem solving
- C. Personal and social responsibility, including
 - civic knowledge and engagement (local and global)
 - intercultural knowledge and competence
 - ethical reasoning and action
 - foundations and skills for lifelong learning
- D. Integrative and applied learning, including synthesis and advanced accomplishment across general and specialized skills.

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:

Students should prepare for twenty-first century challenges by gaining:

- A. Knowledge of human cultures and the physical and natural worlds, through study in the sciences and mathematics, social sciences, humanities, histories, languages, and the arts.
- B. Intellectual and practical skills, including
 - inquiry and analysis
 - critical and creative thinking
 - written and oral communication
 - quantitative literacy
 - information literacy
 - teamwork and problem solving
- C. Personal and social responsibility, including
 - civic knowledge and engagement (local and global)
 - intercultural knowledge and competence
 - ethical reasoning and action
 - foundations and skills for lifelong learning
- D. Integrative and applied learning, including synthesis and advanced accomplishment across general and specialized skills.

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:

Students should prepare for twenty-first century challenges by gaining:

- A. Knowledge of human cultures and the physical and natural worlds, through study in the sciences and mathematics, social sciences, humanities, histories, languages, and the arts.
- B. Intellectual and practical skills, including
 - inquiry and analysis
 - critical and creative thinking
 - written and oral communication
 - quantitative literacy
 - information literacy
 - teamwork and problem solving
- C. Personal and social responsibility, including
 - civic knowledge and engagement (local and global)
 - intercultural knowledge and competence
 - ethical reasoning and action
 - foundations and skills for lifelong learning
- D. Integrative and applied learning, including synthesis and advanced accomplishment across general and specialized skills.

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: 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.

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: Green Building Technology

Upon completion of this program, the graduate can:

1. Compare and contrast LEED requirements with the National Green Building Standard.
2. Demonstrate the point rating system for each green building program.
3. Identify ways to improve in construction methods in each category listed in the LEED and National Green Building Standard.
4. Select green building materials that are more sustainable and/or eco-friendly.
5. Identify alternate systems for homes (Photovoltaic, Grey-water, Wind, Geothermal).

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.

Outlines:

**AAS:
Construction Technology**

General Education Requirements:

		Written Communication	3
MAT	105	Business Mathematics OR higher level of Quantitative Reasoning course	3
		Social/Behavioral Sciences	3
		Heritage/Humanities	3
		Natural Sciences	3
		Oral Communication	3
		Subtotal	18

Technical Requirements:

		Digital Literacy or demonstrated competency	0-3
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:	42-45
		Total:	60-63

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

*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:	Written Communication, Oral Communications, or Humanities/Heritage	3
Area 2:	Social / Behavioral Sciences, Natural Sciences, or Quantitative Reasoning	3
	Subtotal	6

Note: WPP200 or EFM 100 may be taken for 3 credit hours of Social Interaction to meet the Diploma General Education requirements.

Technical Requirements:

		Digital Literacy or demonstrated competency	0-3
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:	42-45
		Total:	48-51

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

*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:	Written Communication, Oral Communications, Humanities or Heritage	3
Area 2:	Social/Behavioral Sciences, Natural or Applied Sciences or Quantitative Reasoning	3
	Subtotal	6 credits

Note: WPP200 or EFM 100 may be taken for 3 credit hours of Social Interactions to meet the Diploma General Education requirements.

Technical Requirements:

		Digital Literacy course or demonstrated competency	0-3
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	21-24
		Total Credits	27-30

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

**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	105	Introduction to Painting	2
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INF	111	Advanced Painting	2
INF	115	Introduction to Wallcovering	2
INF	121	Advanced Wallcovering	2
		Total Credits	8

Green Building Technology

BRX	220	Blueprint Reading for Construction	3
CAR	270	Green Building	3
CAR	126/127	Introduction to Construction/Introduction to Construction Lab	4
		Electives (*Suggested Technical Electives)	10
		Total Credits	20

***Suggested Technical Electives: Select a minimum of 10 credit hours.**

(This list is not all inclusive. Other courses may be taken as approved by Construction Technology Instructor.)

CAR	140/141	Surveying and Foundations/Surveying and Foundations Lab	(5)
CAR	190/191	Light Frame Construction I/ Light Frame Construction I Lab	(5)
CAR	196/197	Light Frame Construction II/ Light Frame Construction II Lab	(5)
CAR	200/201	Light Frame Construction III/Light Frame Construction III Lab	(5)

Dates of Actions:

Approved:

Revised: May 2005, December 2006, December 2012