

Albert Dambrose  
Spring 2012 Drafting Design  
Advisory Committee Handout  
MZ \* add to minutes

**PHASE TWO**  
**CHANGES TO**  
**DRAFTING & DESIGN TECHNOLOGY A.S. DEGREE**

Creation of two new certificates programs:

Drafting Design  
Sustainable Design

Certificate Programs for AS in Architectural Design and Construction Technology:

- Drafting Design - 22 Credits Primary, 24 Credits Secondary? (CIP 0615130101)
- Sustainable Design - 19 Credits (CIP 0630330106)

Drafting Design Certificate			
ETD 1530	Drafting and Design (Manual)	4	
ETD 1320	Computer Aided Drafting	3	
ETD 2340	Advanced Computer Aided Drafting	3	
ETD 1103C	Engineering Graphics I (AutoCAD Track)	4	
ETD 1390	Introduction to Revit Architecture	4	
BCN 2710	Construction Procedures	4	
			22
Program Total			22

Sustainable Design Certificate			
BCN 1040	Introduction to Sustainability in Construction	3	
BCN 1272	Blueprint Reading	3	
ETD 1390	Introduction to Revit Architecture	4	
BCT 1773	Building Construction Estimating, Scheduling & Cost Control	4	
BCT 1227	Building Envelope Science (New course as elective)	3	
BCN XXXX	New Sustainability Course	3	
			20
Program Total (19 required per state frameworks)			20

**BCT 1227 - Building Envelope Science - Offered at State College of Florida (SCF) as an elective.**

**Course Description:** The course will cover the building envelope in terms of the functions it performs; atmospheric conditions it mediates between, its relationship to other building-perimeter systems, and the principles of physics and properties of materials employed to perform its functions.

**Course Objectives:**

- Differentiate the various building envelope functions
- Illustrate strategies for separating conditioned spaces from the outdoors
- Demonstrate an understanding of the environmental forces acting on envelopes.
- Demonstrate an understanding of the performance criteria of contemporary enclosures.
- Demonstrate an understanding of the design criteria as related to environmental separation, filtering, buffering and structural participation.
- Demonstrate an understanding of the envelope design criteria and its relationship to performance criteria
- Recognize the relationship between the building envelope and other building perimeter systems
- Demonstrate an understanding of the physical properties of the building enclosure's components, manufacturing and construction constraints.
- Demonstrate an understanding of the mechanical behavior of the building enclosure's components, manufacturing and construction constraints.
- Illustrate how technical-utilitarian systems have been used to create tectonically striking structures.

**PHASE THREE**  
**CHANGES TO**  
**DRAFTING & DESIGN TECHNOLOGY AS DEGREE**

**Coordination of Pre-requisites & Co-requisites:**

# Observations & Recommendations for changes to Drafting/Design program:

## Streamlining of coursework:

- We currently have (3) specialization tracks within one Drafting and Design Technology Degree. Students typically pick one specialization track. Each specialization track has a set of core required coursework. Currently, in this core required courses, there is the frequent use of the word 'OR' as choices for classes. This needs to be eliminated and simplified so that each specialization has the correct consistent core requirement.
- The current AS degree program with its three distinct specialization tracks makes it impossible to adequately assess students that complete this program. This is why in the past, I had to determine the average skill set that anyone in our program regardless of which specialization that was selected can be assessed on. This has been limited to CAD skills and has led to a portfolio type of assessment for a program level measurement. I highly recommend that we split the current program so that each specialization can be its own stand along AS degree with its own set of program assessments and goals.
- Certain coursework will need to be eliminated. One such course is ETD 1102, Engineering Graphics. This is one of two manual drafting courses.
- Addition of a mandatory course, BCN 1040 , Introduction to Sustainability in Construction.
- Certain coursework will need to have their credits increased or decreased to provide for the adequate number of credit hours to complete an AS program.
- Certain coursework such as Construction Estimating and Construction Scheduling should be consolidated into one course.
- Adjustments will have to be made on the total amount of credit hours for the entire program to make way for a new mandatory coursework (first year experience SLS ). Students that do not need this SLS course, can then pick from a list of approved elective courses.
- An overview of each course and its pre-requisite requirement will need to be done. Certain courses have no pre-req, and create problems in courses that students do not have the basic understanding of the concepts that lead into an advanced course.

## Articulation/Transfer:

- Develop an articulation agreement between FGCU School of Engineering and Edison State College for students that choose to attend ESC first and then transfer to FGCU. Our drafting/design program offers courses that historically have been accepted at FGCU. An example of these courses have been ETD 1103C, EGS 1001, SUR 1100C and SUR 2140C.
  - Valencia College has a good example of online published articulation agreements
  - Develop clear, concise career pathway handouts, that clearly informs students of pathways to higher degrees and or work opportunities. Refer to Valencia College flyer.
- Continue our articulation agreement with local high schools and tech centers. The current articulation agreement will need to be updated to reflect changes to our current Drafting and Design program. Eventually, this degree will be phased out and a new articulation agreement will need to be drafted to allow smooth transition into the new AS programs.

### Clep/Equivalence Exam:

- Develop a way that students can Clep their way out of the beginning AutoCAD course (ETD 1320). There are a good number of students that took this level of a course in high school or through personal work experience, know how to use this software. This course is a pre-req for the other advanced CAD/BIM courses. There should be a formal procedure to have them test out of this course and receive credit for it.

### Advisement:

- For the (10) years that I have been teaching here, every semester I have several students that were not advised properly. They were either advised to enroll and complete a DD program, when in fact they needed to obtain an AA and transfer into a school of engineering at one of our Universities. Some students were told that this AS program would allow them transfer into a University system seamlessly. Others were advised to enroll in our DD program if they were architect majors, which is a completely different degree track.

### Marketing/Promotion:

- Marketing of the Drafting/Design program is not currently strong. Our college website is lacking the clarity and detail of our program as well as other AS programs. Other college websites provided detailed information about the program beyond the course listing or two year plans. This enhancement can be examples of student work, success stories, examples of employment and videos of field trips or interviews.
  - A student that is interested in our program cannot obtain any clear idea about our program, career paths, faculty bio, FAQ's, etc..
    - Westwood College
    - Portland Community College
    - Southwest Florida College
  - The general information page has nothing specific to the DD program.

### Faculty Credentialing:

- The faculty credentialing manual needs to be updated and the correct, realistically appropriate wording needs to be introduced for coursework prefix. We need to compare our credentialing to other Florida community/state colleges. I personally believe that the college for reasonings related to SACS accreditation has made it difficult to find local talented professors that meet the credentialing. We need professionals that have real-world experience in this technical program. While reviewing other SACS accredited institutions, I drew the conclusion that there can be a better way to satisfy minimum educational requirements as well as balance it with real-world measurable experience.
- Below is a snapshot of the Edison State College 8-23-11 Faculty Credentialing Manual for course prefix in our current Drafting and Design AS degree. This most current manual has a line that requires Architecture Degree holders to go an extra step. This line should be amended so that all of the degrees accepted in these prefix should be given the same criteria and/or eliminated and used as an Alternate Qualification Process.

Edison Course Prefix	Transfer	Non-Transfer	Requirements	Terminal Degree
EGS 1001	X		Doctoral or Master's Degree in Engineering <b>OR</b> Doctoral or Master's degree and 18 graduate semester hours in Engineering	PhD
ETD	X		Doctoral or Master's Degree in Engineering or Architecture <b>OR</b> Doctoral or Master's degree and 18 graduate semester hours in Engineering or Architecture	PhD
ARC	X		Doctoral or Master's Degree in Architecture <b>OR</b> Doctoral or Master's degree and 18 graduate semester hours in Architecture	PhD
BCN BCT	X		Doctoral or Master's degree in Building Construction, Construction Management, Architecture, or Civil Engineering <b>OR</b> Doctoral or Master's degree and 18 graduate semester hours in Building Construction, Construction Management, Architecture, or Civil Engineering  Architecture Degree Holders: Must verify work experience that proves (hands-on basis) connection to construction industry	PhD
GIS	X		Doctoral or Master's Degree in Geographic Information Systems, Geography, and Urban and Regional Planning, Civil Engineering, Environmental Engineering, or Construction Engineering <b>OR</b> Doctoral or Master's degree and 18 graduate semester hours in any combination Geographic Systems, Geography, or Urban and Regional Civil Engineering, Environmental Engineering, or Construction Engineer Planning courses	PhD
SUR 1100C SUR 2140C	X		Doctoral or Master's Degree in Civil Engineering or Urban and Regional Planning., <b>OR</b> Doctoral or Master's degree and 18 graduate semester hours in any combination of Civil Engineering, Architecture, Urban and Regional Planning.	PhD

- **Santa Fe College** is a Level II college such as Edison. They are SACS accredited and were reaffirmed in 2003. In their faculty credentialing manual dated 9/2010 it provides for an alternative credential process providing for support of "professional licensure and certificates, honors and awards." Below is the wording found in the Sante Fe Credential Manual dated 9/2010 under "Guidelines for Alternate Credentials: Faculty/Applicant Porfolio, Format and Review Process."

*Under special circumstances, faculty members may have experience that clearly contributes to student learning outcomes and can be considered in lieu of formal*

academic preparation. In these cases, the applicant may present a portfolio that documents such experience. The institution also considers competence in the field, professional licensure and certificates, honors and awards, continuous documented excellence in teaching, or other demonstrated competencies and achievements that contribute to effective teaching and student learning outcomes. It is the candidate's responsibility to assemble the portfolio and it is the responsibility of the program or department to verify that documentation.

- Below is what is provided in the Santa Fe College Credential Manual. An interesting organization is that they list all of the courses in the Building Construction Technology AS Degree together. You will notice the wording of Bachelors degree for specific courses without going through an Alternative Credentialing process.

Discipline/Program: Building Construction Technology Courses at SF: Transfer/Non Transfer		
Transfer	Minimum Requirements	Qualifying Fields
BCN 1210 BCN 1251C BCN 2405	Master's degree with at least 18 graduate semester hours in any combination of the qualifying fields.	Architecture Architectural Studies Building Construction Civil Engineering

Discipline/Program: Building Construction Technology Courses at SF: Transfer/Non Transfer		
Non Transfer	Minimum Requirements	Qualifying Fields
BCN 1210 BCN 1221C BCN 1251C BCN 1760 BCN 2222C BCN 2560 BCN 2272 BCN 2450 BCN 1220 BCT 2770 BCT 2705 BCT 2750 ETD 1320 SUR 2001C	Bachelor's degree in any combination of qualifying fields or an associate's degree and demonstrated competencies in any specific discipline or program listed above.	Architecture Architectural Studies Building Construction Civil Engineering

- Polk State College is a Level II college such as Edison. They are SACS accredited and were reaffirmed in 2011. They offer an AS Degree in Engineering Technology. Although this degree is a little different than new our degrees at Edison, they offer one ETD course, Computer Aided Drafting, which is exactly a course that we teach at Edison. Below is a snap shot of their credential manual dated April 2011.

DISCIPLINE AREA			ENGINEERING TECHNOLOGY
Course Prefix	T (Transfer)	N (Non-Transfer)	Minimum Requirements
EET EST ETD ETI ETM		<input checked="" type="checkbox"/>	Bachelor's degree in Engineering Technology or Electronics or in Manufacturing, Industrial, Chemical, Mechanical, Electrical or related engineering  or Associate's degree in Engineering Technology with appropriate industry certification/licensure and work experience



- Valencia College is a level II college such as Edison. They are SACS accredited and were reaffirmed in 2003. Their faculty credential manual was updated on November 2010. Below is a sample of a specific Alternative qualification form that explicitly allows for applicants who do not meet the degree criteria to prove their experience in the real-world by another means.

### ALTERNATIVE CREDENTIALING (AC) REVIEW

Individuals that explicitly meet college minimum degree and course work requirements as delineated in the online Valencia Credentials Procedures Manual are considered to be credentialed on a "self-evident" basis. Additional documentation is not required.

However, individuals that do not explicitly meet college minimum degree and course work requirements as delineated in the online Valencia Credentials Procedures Manual can be justified on an individual basis by documenting other qualifications. Justification can be based on:

- related work experiences in the field
- professional licensure and certifications
- honors and awards
- continuous documented excellence in teaching
- or other demonstrated competencies and achievements that contribute to effective teaching and student learning outcomes

Applications based on **Alternative Credentialing (AC) Review** must attach appropriate third party documentation to the Credit Faculty Credentials Application. A cover letter (similar to the SAMPLE below) should be prepared by the Dean that provides a rationale for the teaching assignment and a synopsis of the documentation.

Applications based on **Alternative Credentialing (AC) Review** must be approved by the **College Faculty Credentials Oversight Committee** prior to the scheduling of any formal teaching assignments.

#### SAMPLE

##### Alternative Credentialing (AC) Review Based on Other Documented Qualifications

This applicant does not explicitly meet degree and course work guidelines, but has been recommended for a teaching assignment based on an **Alternative Credentialing (AC) Review** of other documented qualifications.

Faculty Applicant: John Q. Artist

Teaching Discipline: Theater

##### EXPLANATION

Mr. John Q. Artist has, over a period of fifteen years, accumulated extensive professional experience as an actor, director, producer and writer for both stage and screen. He has served as an artistic director and instructor for various repertory companies, community theaters and cultural programs. **Documented evidence on alternative qualifications are provided including:** published reviews on various acting performances from the New York Times and the Chicago Tribune, a letter of reference from the Director's Guild on his work as a director and playwright, published materials on professional contributions to an Interpretive Outreach program sponsored by the New York City Department of Parks and Recreation and other letters of reference on public service theatrical performances.

Signed by Appropriate Dean

- On Valencia College's website you can search for active faculty teaching specific programs. Below is a snap shot of the two similar degrees that we are going to be offering in 2012 academic year. Notice that in the Civil/Surveying Eng Technology degree that we have personel teaching with variation of engineering degrees and/or Bachelor Degrees. Also notice a faculty with a different type of Engineering degree is teaching a BCT course.

<b>Civil/Surveying Eng Technology</b>			
<b>Name</b>	<b>Courses Taught</b>	<b>Relevant Academic Degrees and Course Credits Earned</b>	<b>Other Qualifications</b>
Bowling, Sandra Dawn (part time)	MTB2321 (N) Technical Math SUR2202C (N) Hwy Drafting and Route Desgn	M S Agri & Bio Systems Engineering University of Nebraska B S Agriculatural Engineering Univ Kentucky Lexington* 32 gsh C/S	
Donald, Richard W (part time)	SUR1101C (T) Basic Surveying Measurements	B S Civil Engineering Florida State University	
Hastler, Tanya (part time)	ETD1340 () Advanced CADD SUR2390 () Introduction to GIS	B S Biology Univ Akron AS Civil/Survey Engineer Tech Valencia College AS Drafting and Design Tech Valencia College	Letter of Reference: MSCW-CADD/GIS needs Senior Planning Technician; Letter of Reference: E Sciences-CAD/GIS Specialist
Hellard, Shannon Lee (full time)	ETD2941 (N) Intern Explor in Draft and Des ETD2942 (N) Intern in Draft and Desgn Tech SUR2941 (N) Intern Expl In Surveying SUR2942 (N) Intern in Civil/Survey Eng	M C E Civil Engineering Technology Univ Kentucky Lexington* B S Civil Engineering Technology Univ Kentucky Lexington* 31.00 gsh DDT	
Leavell, Perry Richard (part time)	SUR1101C (T) Basic Surveying Measurements	M P A Public Administration University of Central Florida B A Legal Studies University of Central Florida B S Liberal Studies University of Central Florida AA General Studies Valencia College	
O'Lenick, Dennis M (part time)	BCN2405 (T) Statics and Strength Materials EGS2310 (T) Engineering Analysis-Statics	M S Mechanical Engineering Tech New Jersey Institute Tech B S E Mechanical Engineering Tech New Jersey Institute Tech 30.00 gsh EGN	

<b>Building Construction Tech</b>			
<b>Name</b>	<b>Courses Taught</b>	<b>Relevant Academic Degrees and Course Credits Earned</b>	<b>Other Qualifications</b>
Daelo, Renwick O (part time)	ARC2304 () Architectural Design IV BCN2930 (N) Sel Topics in Building Const	M Arch Architecture University of Florida B A Architecture University of Florida 53.00 gsh ARC	
Davis, Charles Winfred (full time)	BCT1705 (N) Contracts, Codes, and Specs EST3020 () Engineering Mgmt and Ethics ETI3116 () Qual Assurmece and Test Methods	M S Industrial Engineering Mgmt University of Central Florida M.A. TP Engineering Southm Univ New Orleans B S Engineering Technology University of Central Florida AA General Studies Valencia College	
James, Herbert T (part time)	BCN1272 (N) Construction Blueprint Reading	M Arch Architecture University of Florida B Arch Architecture University of Florida	
Powers, Lamar Joseph (full time)	BCN1721 (N) Construct Planning and Control	M S Building Construction Tech University of Florida B B C Building Construction Tech University of Florida	
Ray, Andrew L (full time)	BCN2941 (N) Intern Explor in Construction BCN2942 (N) Intern in Arcitec/Bldg Constr ETC1251 () Eng Materials and Processes ETD1100C (N) Engineering Drawing TAR1120C (T) Architectural Drawing I	M Arch Architecture Texas A&M University B S Industrial Technology Western Michigan Univ	
Stenger, Kristopher R (part time)	ARC2461 () Matrials and Methods: Constrct ETC1251 () Eng Materials and Processes	M Arch Architecture Arizona State Univ Tempe	

- Hillsborough Community College level I college. They are SACS accredited and were reaffirmed in 2007. Their faculty credential manual was updated on July 18, 2011. Below is a sample of a specific Alternative qualification form that explicitly allows for applicants who do not meet the degree criteria to prove their experience in the real-world by another means. This wording is almost exact in nature to the wording found in the Santa Fe College Credential Manual on page 9 (Revised 9/2010).

## OPERATIONS MANUAL

<b>Identification: FACULTY CREDENTIALS OPERATIONS MANUAL</b>	<b>Page: 9 of 48</b>	<b>Effective Date: 7/18/11</b>
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### *Faculty Alternative Credentials Process*

Faculty members may have experience that clearly contributes to student learning outcomes and can be considered in lieu of formal academic preparation. In these cases, faculty not meeting the primary credential criteria may be considered for appointment if

1. The faculty member has outstanding professional experience and demonstrated contributions to the teaching discipline, which may be presented in lieu of formal academic preparation
2. The faculty member has training in a closely related discipline and the competencies needed to teach the course objectives were covered in the related disciplines.

Documentation of professional experience may include items such as the following:

1. Recognition in journals, online sources, or textbooks on the discipline
  2. Certification of participation in training
  3. Certification in field
  4. Professional presentations
  5. Professional registry
  6. Apprenticeships
  7. Honors and Awards directly related to the discipline
  8. Appearance on programs reflecting work in the discipline
  9. Letters of support from past employers, colleagues, etc. on business stationery that speak directly to work in the discipline
  10. Evidence of continuous excellence in teaching
  11. Other discipline related documentation that demonstrates third party recognition of the applicant's expertise in the field
- I cannot find any specific Alternative Qualification Procedure on Edison's Portal that allows for a similar procedure as other institutions. The only reference to Alternative Procedures are found on page 3 of the Edison College Faculty Credentials Procedure, dated 9/2008. I also can find vague reference to an Alternate Qualification process on the Final Faculty Qualifications Form Revised 4/2011. The SACS standard 3.7.1 provides for the following wording: (highlighted references the use of licensure as an option).

*The institution employs competent faculty members qualified to accomplish the mission and goals of the institution. When determining acceptable qualifications of its faculty, an institution gives primary consideration to the highest earned degree in the discipline. The institution also considers competence, effectiveness, and capacity, including, as appropriate, undergraduate and graduate degrees, related work experiences in the field, professional licensure and certifications, honors and awards, continuous documented excellence in teaching, or other demonstrated competencies and achievements that contribute to effective teaching and student learning outcomes. For all cases, the institution is responsible for justifying and documenting the qualifications of its faculty.*

- In Summary, I believe that we can provide for a range of acceptable degrees required to teach specific coursework or course prefix. At the same time, a detailed Alternate Qualification Procedure should be developed and to follow a similar format to other institutions in the State of Florida under SACS accreditation. Also, I believe that the current credential manual should not require extra documentation for the Masters of Architecture degree holders. The extra criteria should be reserved as a tool within an Alternate Qualification Procedure. It will be best to consult with other licensed professionals in the field in construction and to also work with our advisory committee for their input. Below is an example of how we can improve the current credential manual for this program specific courses.

(Work in Progress - Not Complete)

Architectural Design and Building Construction Technology and Civil Engineering Technology				
Edison Course Prefix	Transfer	Non-Transfer	Requirements	Terminal Degree
EGS	X		Doctoral or Master's Degree with at least 18 graduate semester hours in any combination of the qualifying fields: Engineering	PhD
ETD	X		Doctoral or Master's Degree with at least 18 graduate semester hours in any combination of the qualifying fields: Architecture Architectural Studies Civil Engineering Industrial Engineering	PhD
ARC	X		Doctoral or Master's Degree with at least 18 graduate semester hours in any combination of the qualifying fields: Architecture Architectural Studies Building Construction	PhD
BCN BCT	X		Doctoral or Master's Degree with at least 18 graduate semester hours in any combination of the qualifying fields: Architecture Building Construction Civil Engineering	PhD
GIS	X		Doctoral or Master's Degree with at least 18 graduate semester hours in any combination of the qualifying fields: Civil Engineering Geospatial Surveying Engineering Environmental Engineering Urban and Regional Planning Geographic Information Systems	PhD
SUR	X		Doctoral or Master's Degree with at least 18 graduate semester hours in any combination of the qualifying fields: Civil Engineering Geospatial Surveying Engineering Environmental Engineering Geographic Information Systems	PhD

Two-Year Plans:

- The two year plans will need to be created for the new AS Degrees as well as create a suggested two year sequence of courses.

Architectural Design and Building Construction Technology				
Course Name		Fall	Spring	Summer
BCN 1040	Introduction to Sustainability in Construction	X	X	
EGS 1001	Introduction to Engineering	X	X	
ETD 1320	Computer Aided Drafting	X	X	X
BCN 1272	Blueprint Reading		X	X
BCN 2710	Construction Procedures	X	X	
ETD 1530	Drafting and Design (Manual)	X		
ETD 1390	Introduction to Revit Architecture		X	
ETD 1103C	Engineering Graphics I CAD			X
ETD 2340	Advanced Computer Aided Drafting	X		
BCN 1230C	Materials & Methods		X	
BCT 1760	Building Codes	X		
BCT 1773	Building Construction Estimating, Scheduling & Cost Control			X
BCT 2730	Construction Management			X

First Year Fall Semester	Credit Hours
ENC 1101 Composition 1	3
Gen Ed Mathematics	3
ETD 1320 Computer Aided Drafting	3
ETD 1530 Drafting & Design	4
<b>Total</b>	<b>13</b>

Second Year Fall Semester	Credit Hours
Gen Ed Social Science	3
ETD 2340 Advanced CAD	3
BCN 1230C Materials & Methods	3
Elective	2
<b>Total</b>	<b>11</b>

First Year Spring Semester	Credit Hours
ENC 1102 Composition II	3
Gen Ed Science	3
EGS 1001 Introduction to Engineering	3
BCN 1040 Introduction to Sustainability	3
<b>Total</b>	<b>12</b>

Second Year Spring Semester	Credit Hours
Gen Ed Humanities	3
ETD 1390 Intro to Revit Architecture	4
BCT 1760 Building Codes	2
BCN 2710 Construction Procedures	4
<b>Total</b>	<b>13</b>

First Year Summer Semester	Credit Hours
SPC 1017 Fundamentals of Speech Com	3
BCN 1272 Blueprint Reading	3
ETD 1103C Engineering Graphics CAD	4
<b>Total</b>	<b>10</b>

Second Year Summer Semester	Credit Hours
BCT 1773 Bldg. Const. Est. Sch. & Cost Control	4
BCT 2730 Construction Management	3
<b>Total</b>	<b>7</b>

Civil Engineering Technology				
Course Name		Fall	Spring	Summer
BCN 1040	Introduction to Sustainability in Construction	X	X	
EGS 1001	Introduction to Engineering	X	X	
ETD 1320	Computer Aided Drafting	X	X	X
BCN 1272	Blueprint Reading		X	X
BCN 2710	Construction Procedures	X	X	
SUR 1100C	Surveying	X		X
SUR 2140C	Advanced Surveying		X	
ETD 1103C	Engineering Graphics CAD			X
GIS 1040	Geographic Information Systems (GIS)		X	
GIS 1045	Geographic Information Systems (Customization)			X

First Year Fall Semester	Credit Hours
ENC 1101 Composition 1	3
Gen Ed Mathematics	3
ETD 1320 Computer Aided Drafting	3
EGS 1001 Introduction to Engineering	3
<b>Total</b>	<b>12</b>

Second Year Fall Semester	Credit Hours
SUR 1100C Surveying	4
BCN 2710 Construction Procedures	4
BCN 1040 Introduction to Sustainability	3
Elective	2
<b>Total</b>	<b>13</b>

First Year Spring Semester	Credit Hours
ENC 1102 Composition II	3
Gen Ed Science	3
MAC 1140 Pre-Calculus Algebra	3
SPC 1017 Fundamentals of Speech Com	3
<b>Total</b>	<b>12</b>

Second Year Spring Semester	Credit Hours
BCN 1272 Blueprint Reading	3
SUR 2140C Advanced Surveying	4
GIS 1040 Geographic Information Systems	3
Gen Ed Humanities	3
<b>Total</b>	<b>13</b>

First Year Summer Semester	Credit Hours
ETD 1103C Engineering Graphics CAD	4
MAC 1114 Trigonometry	3
<b>Total</b>	<b>7</b>

Second Year Summer Semester	Credit Hours
GIS 1045 Geo. Information Systems (Custom.)	3
Gen Ed Social Science	3
<b>Total</b>	<b>6</b>

### Mission Statement:

- A new, clear and concise mission statement will need to be developed for each AS program. The current mission statement shown below is vague and non-program specific.

*The Drafting and Design Technology Associate in Science Degree Program is designed to give students the necessary training and background for careers of a technical nature. The courses are designed to qualify students, through specialized and intensive instruction, for many technical positions.*

- An updated and new list of career opportunities for each of the new AS degree programs will need to be developed to help modernize the list of careers.

### Program Certificates:

- In the past, we had course clusters available for students to receive if they completed a set number of drafting courses. A lot of students participated in this process and requested the certificates. At some point, in the past couple of years, that disappeared, it was unknown why. However, after understanding the Florida state frameworks system, there are certificate programs that can be developed depending on which CIP number is linked to our degree.
- Develop a list of courses in which their course outcomes match the state's certificate for the appropriate CIP number.

### Social Media/Professional Networking:

- In the past a Facebook page was developed as a way to track students during college enrollment as well as post college job placement. This also became a place to post information about programs, lectures and community events related to the program. This was created using my personal Facebook account, but needs to be something controlled from the college stand point. A link from our college program webpage can be created for prospective students to view.

[ESC Drafting and Design Facebook Page](#)

[ESC USGBC Students Facebook Page](#)



- We need to take advantage of professional networking sites, such as LinkedIn. I have connected online with past students on this networking website as a way to keep in touch with past and current students. This needs to be formalized.

### Development of a Pre-Architecture track:

- The College currently does not have an AA track for students pursuing a professional Architectural program. Currently students obtain a general studies AA and transfer to a state university. Then they have to make up time by taking the specific ARC prefix courses that are not available at Edison. As an alumni, I obtained my general studies AA and transferred to University of Florida and then had to invest two additional years just to make up the courses that are not offered at Edison. During my time at Edison, I have seen numerous students that either followed a similar process as I did or have left to go to another community college that offers a pre-architecture program.
- We currently have a couple of required architecture courses within our existing AS degree. We would have to create some new ARC courses with an articulation agreement specific to a state university.
- Currently, the local AIA (American Institute of Architects) have drafted a white paper outlining a potential curriculum. They have met with Edison and FGCU. FGCU expressed interest in the Bachelor and Masters level. This white paper is dealing with a larger degree such as a Bachelors or Masters degree. However, Edison can help create the first two year program for transition into the Bachelors and Masters program at FGCU.
- In the long term, if FGCU does not follow through, Edison could offer the program as a 5 year Bachelors if granted permission from all related state educational rules and procedures.

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