Savannah State University
New Programs and Curriculum Committee
Summary Page – Form I

1. Submitting College: COST

2. Department(s) Generating The Proposal: Engineering Technology & Mathematics
   Engineering Technology & Mathematics (if needed)

3. Proposal Title: Civil Engineering Technology Program Course Pre Requisite Revisions

4. Course Number(s): ENGT 3101 (Statics), CIVT 3101K (Surveying), ENGT 3501 (Dynamics), ENGT 3601 (Strength of Materials), CIVT 3301K (Fluid Mechanics), CIVT 3701 (Structural Analysis), CIVT 3401 (Highway and Transportation Engineering), CIVT 4201K (Environmental Engineering I), CIVT 4111K (Reinforced Concrete), CIVT 4101 (Steel Design), CIVT 3501 (Civil Engineering Computing Practices)

5. Course Title(s): see above

6. Effective Date: Spring Year: 2012

7. Brief Summary of Proposal: This proposal is being submitted to modify the pre requisites of selected courses in the Civil Engineering Technology Program.

8. Type of Proposal: Course Change If other, please describe: Click here to enter text.

9. Impact on Library Holdings
   Existing: Click here to enter text.
   Additional: Click here to enter text.
   Deletions: Click here to enter text.

10. Impact on Existing Programs: Click here to enter text.

11. Additional Resources Required
    Personnel: Click here to enter text.
    Non-personnel: Click here to enter text.

12. Approvals:
   - Department Curriculum Committee
     Signature________________________Date________________
   - Department Chair
     Signature________________________Date________________
   - College Curriculum Committee
     Signature________________________Date________________
   - College Dean
     Signature________________________Date________________
   - Vice President of Academic Affairs
     Signature________________________Date________________
     (Chair of the New Programs and Curriculum Committee)
   - Faculty Senate
     Signature________________________Date________________
Savannah State University
New Programs and Curriculum Committee
Course Change Page – Form IV

1. **Course Number**
   - Current: CIVT 3101K
   - New: Click here to enter text.

2. **Course Title**
   - Current: Surveying
   - New: Click here to enter text.

3. **Catalog Description**
   - Current: A comprehensive study of taping, leveling, angle, and direction measurements, theodolites, traverse measurements computation of coordinates, areas, and volumes; topographic surveying, contouring; telemetry, EDMs, and Total Stations route surveying; simple and transition horizontal and vertical curves; triangulation; introduction to aerial surveying and photogrammetric methods; introduction to GPS and GIS; use and care of instruments; computer applications. (3-4-5)
   - New: Click here to enter text.

4. **Rationale:** Change to reflect correct course pre requisites based upon knowledge necessary to enter course.

5. **Library Resource Statement**
   - Existing: Click here to enter text.
   - Additional: Click here to enter text.
   - Deletions: Click here to enter text.

6. **Credit Hours**
   - Current: 4
   - New: Click here to enter text.

7. **Pre-requisites**
   - Current: MATH 1113, and Co Requisite of ENGT 2101K
   - New: MATH 1113
   - Deletions: ENGT 2101K

8. **Syllabus:** Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**
    - Current: Click here to enter text.
    - New: Click here to enter text.

11. **Grading Method**
    - Current: Click here to enter text.
    - New: Click here to enter text.
1. **Course Number**
   - Current: ELET 3101K
   - New: Click here to enter text.

2. **Course Title**
   - Current: Electrical Circuits I
   - New: Click here to enter text.

3. **Catalog Description**
   - Current: The concept of current, voltage, power, and resistance. The course deals with units, basic electrical laws, series and parallel circuits, network theorems, and instruments. AC sources, capacitance, inductance, and magnetism are introduced. Circuits are analyzed using PSPICE Laboratory work parallels class work and include the use of various AC and DC instruments. (2-2-3)
   - New: Click here to enter text.

4. **Rationale:** Change to reflect correct course pre requisites based upon knowledge necessary to enter course.

5. **Library Resource Statement**
   - Existing: Click here to enter text.
   - Additional: Click here to enter text.
   - Deletions: Click here to enter text.

6. **Credit Hours**
   - Current: 3
   - New: Click here to enter text.

7. **Pre-requisites**
   - Current: Click here to enter text.
   - New: MATH 1113
   - Deletions: Click here to enter text.

8. **Syllabus:** Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**
    - Current: Click here to enter text.
    - New: Click here to enter text.

11. **Grading Method**
    - Current: Click here to enter text.
    - New: Click here to enter text.
1. **Course Number**
   - Current: CIVT 3301K
   - New: Click here to enter text.

2. **Course Title**
   - Current: Fluid Mechanics
   - New: Click here to enter text.

3. **Catalog Description**
   - Current: Elements of fluid mechanics; pressure measurement; hydrostatics; forces on submerged plane and curved surfaces, buoyancy; fluids in motion; hydraulic and energy gradients; forces exerted by jets on flat plates and curved vanes; orifices, notches and weirs; flow in pipes; simple pipe networks; open channel flow; pumps. Hydrologic cycle; precipitation data analysis; hydraulics of groundwater flow; equilibrium and non-equilibrium conditions; groundwater exploration; surface runoff; hydrographs; reservoir storage; flood routing; hydrological forecasting; computer applications. (3-2-4)
   - New: Click here to enter text.

4. **Rationale:** Change to reflect correct course pre requisites based upon knowledge necessary to enter course.

5. **Library Resource Statement**
   - Existing: Click here to enter text.
   - Additional: Click here to enter text.
   - Deletions: Click here to enter text.

6. **Credit Hours**
   - Current: 4
   - New: Click here to enter text.

7. **Pre-requisites**
   - Current: ENGT 3101
   - New: (ENGT 3101 or ENGR 2201) and MATH 2111
   - Deletions: Click here to enter text.

8. **Syllabus:** Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**
    - Current: Click here to enter text.
    - New: Click here to enter text.

11. **Grading Method**
    - Current: Click here to enter text.
    - New: Click here to enter text.
1. **Course Number**  
   Current: CIVT 3401K  
   New: Click here to enter text.

2. **Course Title**  
   Current: Highway and Transportation Engineering  
   New: Click here to enter text.

3. **Catalog Description**  
   Current: A study of several transportation modes. Emphasis will be placed on the linkage of these modes for the effective and economic movement of people, materials, and equipment. It will also include the fundamentals of highway design, layout, foundations, and pavements; grade intersections and separations; highway cross-sections, traffic and safety requirements. (3-2-4)  
   New: Click here to enter text.

4. **Rationale:** Change to reflect correct course pre requisites based upon knowledge necessary to enter course.

5. **Library Resource Statement**  
   Existing: Click here to enter text.  
   Additional: Click here to enter text.  
   Deletions: Click here to enter text.

6. **Credit Hours**  
   Current: 4  
   New: Click here to enter text.

7. **Pre-requisites**  
   Current: CIVT 3101K, CIVT 3201K, MATH 2111, and ENGT 2101K  
   New: CIVT 3101K, CIVT 3201K, MATH 2111, and (ENGT 2101K or ENGR 2770)  
   Deletions: CIVT 3101K

8. **Syllabus:** Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**  
    Current: Click here to enter text.  
    New: Click here to enter text.

11. **Grading Method**  
    Current: Click here to enter text.  
    New: Click here to enter text.
1. **Course Number**
   - Current: CIVT 3501
   - New: Click here to enter text.

2. **Course Title**
   - Current: Civil Engineering Computing Practices
   - New: Click here to enter text.

3. **Catalog Description**
   - Current: A study of civil engineering software applications utilizing latest software packages. Emphasis will be on software that are used in local industry and the department of transportation. Course content will vary based on software packages used in the class.
   - New: Click here to enter text.

4. **Rationale:** Change to reflect correct course pre requisites based upon knowledge necessary to enter course.

5. **Library Resource Statement**
   - Existing: Click here to enter text.
   - Additional: Click here to enter text.
   - Deletions: Click here to enter text.

6. **Credit Hours**
   - Current: 3
   - New: Click here to enter text.

7. **Pre-requisites**
   - Current: Senior Standing
   - New: Junior Standing or Consent of the Instructor
   - Deletions: Click here to enter text.

8. **Syllabus:** Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**
    - Current: Click here to enter text.
    - New: Click here to enter text.

11. **Grading Method**
    - Current: Click here to enter text.
    - New: Click here to enter text.
1. **Course Number**
   - Current: ENGT 3501
   - New: Click here to enter text.

2. **Course Title**
   - Current: Dynamics
   - New: Click here to enter text.

3. **Catalog Description**
   - Current: The study of kinematics, the motion and movement of a body in terms of displacement, velocity acceleration and time; and kinetics, the relations between motion of a body and the forces that caused the motion. Topics include rectilinear motion as well as curvilinear motion.
   - New: Click here to enter text.

4. **Rationale:** Change to reflect correct course pre requisites based upon knowledge necessary to enter course.

5. **Library Resource Statement**
   - Existing: Click here to enter text.
   - Additional: Click here to enter text.
   - Deletions: Click here to enter text.

6. **Credit Hours**
   - Current: 2
   - New: Click here to enter text.

7. **Pre-requisites**
   - Current: ENGT 3101
   - New: ENGT 3101 and MATH 2101
   - Deletions: Click here to enter text.

8. **Syllabus:** Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**
    - Current: Click here to enter text.
    - New: Click here to enter text.

11. **Grading Method**
    - Current: Click here to enter text.
    - New: Click here to enter text.
1. **Course Number**
   - Current: ENGT 3601
   - New: Click here to enter text.

2. **Course Title**
   - Current: Strength of Materials
   - New: Click here to enter text.

3. **Catalog Description**
   - Current: A comprehensive study of the concept of the stress-strain relationship and how this relates to the design of structural members. Emphasis will be on the stress distribution due to axial tension and compression, thermal, torsion, and transverse loading and their combinations. Course content will also include pure bending, transformations of stress, shear and bending moment diagrams, slope and deflection of beams by integration, and Euler’s formula for columns.
   - New: Click here to enter text.

4. **Rationale:** Change to reflect correct course pre requisites based upon knowledge necessary to enter course.

5. **Library Resource Statement**
   - Existing: Click here to enter text.
   - Additional: Click here to enter text.
   - Deletions: Click here to enter text.

6. **Credit Hours**
   - Current: 3
   - New: Click here to enter text.

7. **Pre-requisites**
   - Current: ENGT 3101 and MATH 2111
   - New: ENGT 3101 or ENGR 2201, and MATH 2111
   - Deletions: Click here to enter text.

8. **Syllabus:** Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**
    - Current: Click here to enter text.
    - New: Click here to enter text.

11. **Grading Method**
    - Current: Click here to enter text.
    - New: Click here to enter text.
1. **Course Number**
   - Current: CIVT 3701
   - New: Click here to enter text.

2. **Course Title**
   - Current: Structural Analysis
   - New: Click here to enter text.

3. **Catalog Description**
   - Current: A comprehensive study of the behavior response of various structural forms that are employed, and an enumeration of the various loading conditions that a structure must support. Emphasis will be placed on the fundamentals and matrix method of structural analysis of simple and complex structural systems including trusses, beams, frames, arches, cable structures, and influence lines. It will also cover an introduction to the theory of statically indeterminate structures.
   - New: Click here to enter text.

4. **Rationale:**
   - Change to reflect correct course pre requisites based upon knowledge necessary to enter course.

5. **Library Resource Statement**
   - Existing: Click here to enter text.
   - Additional: Click here to enter text.
   - Deletions: Click here to enter text.

6. **Credit Hours**
   - Current: 4
   - New: Click here to enter text.

7. **Pre-requisites**
   - Current: ENGT 3201 and ENGT 3601
   - New: ENGT 3601
   - Deletions: ENGT 3201

8. **Syllabus:** Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**
    - Current: Click here to enter text.
    - New: Click here to enter text.

11. **Grading Method**
    - Current: Click here to enter text.
    - New: Click here to enter text.
<table>
<thead>
<tr>
<th></th>
<th><strong>Course Number</strong></th>
<th>Current: CIVT 4101K</th>
<th>New: Click here to enter text.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Course Title</strong></td>
<td>Current: Steel Design</td>
<td>New: Click here to enter text.</td>
</tr>
<tr>
<td></td>
<td><strong>Catalog Description</strong></td>
<td>Current: A study of structural design procedures of structural elements utilizing latest design methods according to building and design codes. Emphasis will be on the integration of designing steel structures from conception to working drawings. Course content includes identification and calculation of various loads, structural framing, designing of trusses, joists, beams, columns, and simple connections. (2-2-3)</td>
<td>New: Click here to enter text.</td>
</tr>
<tr>
<td></td>
<td><strong>Rationale:</strong></td>
<td>Change to reflect correct course pre requisites based upon knowledge necessary to enter course.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Library Resource Statement</strong></td>
<td>Existing: Click here to enter text.</td>
<td>Additional: Click here to enter text.</td>
</tr>
<tr>
<td></td>
<td><strong>Credit Hours</strong></td>
<td>Current: 3</td>
<td>New: Click here to enter text.</td>
</tr>
<tr>
<td></td>
<td><strong>Pre-requisites</strong></td>
<td>Current: CIVT 3201K, CIVT 3701, and ENGT 2101K</td>
<td>New: CIVT 3701, and ENGT 2101K or ENGR 2770</td>
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<tr>
<td></td>
<td><strong>Syllabus:</strong></td>
<td>Click here to enter text.</td>
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<td><strong>Similarity to or Duplication of Existing Courses:</strong></td>
<td>Click here to enter text.</td>
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<td></td>
<td><strong>Textbook Change (include title, author and ISBN#)</strong></td>
<td>Current: Click here to enter text.</td>
<td>New: Click here to enter text.</td>
</tr>
<tr>
<td></td>
<td><strong>Grading Method</strong></td>
<td>Current: Click here to enter text.</td>
<td>New: Click here to enter text.</td>
</tr>
</tbody>
</table>
1. **Course Number**
   - Current: CIVT 4111K
   - New: Click here to enter text.

2. **Course Title**
   - Current: Reinforced Concrete
   - New: Click here to enter text.

3. **Catalog Description**
   - Current: A study of the fundamentals of reinforced concrete design. Emphasis will be on the principles and practices involved in the structural components and the design of reinforced concrete utilizing latest design methods in accordance with the ACI-codes. Course content includes designing of rectangular and T beams, one-way slabs, columns, footings, and retaining walls. \( (2-2-3) \)
   - New: Click here to enter text.

4. **Rationale:** Change to reflect correct course pre requisites based upon knowledge necessary to enter course.

5. **Library Resource Statement**
   - Existing: Click here to enter text.
   - Additional: Click here to enter text.
   - Deletions: Click here to enter text.

6. **Credit Hours**
   - Current: 3
   - New: Click here to enter text.

7. **Pre-requisites**
   - Current: CIVT 3201K, CIVT 3701, and ENGT 2101K
   - New: CIVT 3701, and ENGT 2101K or ENGR 2770
   - Deletions: CIVT 3201K

8. **Syllabus:** Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**
    - Current: Click here to enter text.
    - New: Click here to enter text.

11. **Grading Method**
    - Current: Click here to enter text.
    - New: Click here to enter text.
1. **Course Number**
   - Current: CIVT 4201K
   - New: Click here to enter text.

2. **Course Title**
   - Current: Environmental Engineering I
   - New: Click here to enter text.

3. **Catalog Description**
   - Current:
     Basic concepts of environmental interrelationships; principles of environmental chemistry, microbiology, ecology and health; water quality parameters; water treatment processes; wastewater treatment processes; sludge treatment and disposal; industrial waste waters; design of water, wastewater and sludge treatment units; water distribution and wastewater collection systems; design principles; and computer applications. (3-2-4)
   - New: Click here to enter text.

4. **Rationale:** Change to reflect correct course pre requisites based upon knowledge necessary to enter course.

5. **Library Resource Statement**
   - Existing: Click here to enter text.
   - Additional: Click here to enter text.
   - Deletions: Click here to enter text.

6. **Credit Hours**
   - Current: 4
   - New: Click here to enter text.

7. **Pre-requisites**
   - Current: CHEM 1211, CHEM 1211L, CIVT 3301
   - New: CIVT 3311
   - Deletions: CHEM 1211, CHEM 1211L, CIVT 3301

8. **Syllabus:** Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**
    - Current: Click here to enter text.
    - New: Click here to enter text.

11. **Grading Method**
    - Current: Click here to enter text.
    - New: Click here to enter text.