H. Councill Trenholm State Technical College	Plan of Study	General Studies and Communications Division
Associate in Applied Technology (AAT) Degree in Computer Information Systems (CIS)		

Student: _____ _____ _____
            Last Name   First Name   Social Security Number

Course Number & Title	Credit Hours	Completed/Transfers/Notes
Technical Core Courses: 11 Courses (33 Hrs.) Required	**SEE NOTES Pg. 2, Suggested Sequence Pg. 3, Gen Info, Pg. 4.**	
CIS130 Introduction to Information Systems	3	_____
DPT110 Introduction to Computer Logic and Programming	3	_____
DPT117 Database Management Software Applications	3	_____
DPT161 Networking Fundamentals	3	_____
DPT171 Fundamentals of Unix/Linux I	3	_____
DPT182 Help Desk Applications	3	_____
DPT203 Introduction to the Information Highway	3	_____
DPT207 Introduction to Web Development	3	_____
DPT212 Visual Basic Programming	3	_____
DPT249 Microcomputer Operating Systems	3	_____
DPT291 Case Study in Computer Science ***	**3**	_____
(*** Plan of Study Capstone Course: A Student MUST be within 2 semesters of graduation before taking DPT291 ***		
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General Education: 7 Courses + Orientation (22 Hrs.) Required		
ART100 Art Appreciation	3	_____
CIS146 Microcomputer Applications	3	_____
ENG101 English Composition I	3	_____
ENG102 English Composition II **OR** SPH106 Fundamentals of Oral Communications **OR** ENG130 Technical Report Writing	3	_____
MTH100 Intermediate College Algebra	3	_____
MTH110 Finite Mathematics	3	_____
ORI101 Orientation to College	1	_____
PSY200 General Psychology	3	_____

DEGREE MAJOR & ELECTIVES: (21 HOURS REQUIRED) [COURSES ARE 3 SEMESTER HOURS UNLESS OTHERWISE NOTED]

Course Number & Title	Credit Hours	Completed/Transfers/Notes
Major Emphasis: Cisco Certified Networking Associate (CCNA/Linux+/Security+): 21 Hours		
DPT162 Cisco II: Routers & Switches	3	_____
DPT163 Cisco III : Advanced Routers & Switches	3	_____
DPT164 Cisco IV: WAN Technologies	3	_____
DPT172 Fundamentals of UNIX/Linux II	3	_____
DPT280 Network Security	3	_____
DPTxxx DPT Elective (Student must obtain approval from advisor)	3	_____
DPTxxx DPT Elective (Student must obtain approval from advisor)	3	_____
Major Emphasis: Desktop/Server Support:		
DPT275 Workstation Administration	3	_____
DPT276 Server Administration	3	_____
DPT280 Network Security	3	_____
DPT288 End User and Desktop Applications Support I	3	_____
DPT289 End User and Desktop Applications Support II	3	_____
DPTxxx DPT Elective (Student must obtain approval from advisor)	3	_____
DPTxxx DPT Elective (Student must obtain approval from advisor)	3	_____
Major Emphasis: Programming via Object-Based Languages: 21 Hours		
DPT213 Advanced Visual Basic Programming	3	_____
DPT255 JAVA Programming	3	_____
DPT256 Advanced JAVA	3	_____
DPT281 Systems Analysis & Design	3	_____
DPT285 Object Oriented Programming	3	_____
DPTxxx DPT Elective (Student must obtain approval from advisor)	3	_____
DPTxxx DPT Elective (Student must obtain approval from advisor)	3	_____

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Course Number & Title	Credit Hours	Completed/Transfers/Notes
Major Emphasis: Database/Web Presence Applications/Design (CIW): 21 Hours		
DPT208 Intermediate Web Development	3	_____
DPT209 Advanced Web Development	3	_____
DPT222 Database Management Systems	3	_____
DPT250 E-Commerce	3	_____
DPT264 Business Applications	3	_____
DPTxxx DPT Elective (Student must obtain approval from advisor)	3	_____
DPTxxx DPT Elective (Student must obtain approval from advisor)	3	_____
TOTAL PROGRAM HOURS: 76 Semester Hours		

General Electives: See Advisor for Applicability of the Elective (Variable Hours)

Course Number & Title	Credit Hours	Completed/Transfers/Notes
DPT101A/B/C/D Computer Applications Lab (Note Credit Hour Amount)	**1/1/1/1**	_____
DPT284 DPT Internship	3	_____
DPT294 Special Topics	3	_____
DPT296 Special Topics	3	_____
DPT189 Co-Op for DPT I	3	_____
DPT297 Co-Op for DPT II	3	_____
DPT298 Co-Op for DPT III	3	_____
DPT299 Directed Studies in Computer Science	3	_____
GIS101 Introduction to GIS Technology	3	_____
GIS201 Introduction to GIS Systems	3	_____
GIS202 Cartographic Design for GIS	3	_____
GIS203 Remote Sensing, Spatial Analysis, and Modeling	3	_____
GIS204 GIS Applications and Programming	3	_____
ILT129 PC Hardware	3	_____
SET100 Basic Keyboarding	3	_____

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Notes:

1. Plans of Study are available on the **Trenholm*Tech*** website as follows: www.trenholmstate.edu, Current Students, Student Login, User ID → Student Number, PIN → mmddyy, and print/review Degree Plan.
2. Students are responsible for Plans of Study/Degree Plan, knowing how to access Degree Plans, and the process to review the Plan of Study (Consult your advisor with problems and/or support).
3. DPT291 Case Study in Computer Science and DPT284 DPT Internship are capstone courses in the CIS Program of Study. This information is translated as follows: (a) DPT291 requires a detailed original study based on demonstrating a technology of choice and includes a professionally-bound, outside reader format with a PosterSession/PowerPoint presentation as well as an exit exam of Pass/Fail, and the course **MAY ONLY BE TAKEN IN THE FINAL TWO SEMESTERS OF A STUDENT'S PLAN OF STUDY**; (b) DPT284 is an onsite, non-paid, internship in which students will "work" for a minimum of 3 hours/week at a business or organization off-campus (on-campus are by exception ONLY and is a needs-basis process).   DPT284 also requires a professionally-bound, outside reader format with a PosterSession/PowerPoint presentation.
4. Advisors are available via phone, in person, and/or email.
5. Electives may be taken from any Emphasis or from the List of General Electives.
6. Students are required to complete all Technical Core Courses (11 Classes or 33 Semester Hours), one Major Emphasis (7 Courses or 21 Semester Hours) and the General Education courses (7 Classes & Orientation for 22 Semester Hours). The total hours required for the Computer Information Systems degree technical course work is 18 classes or 54 semester hours, which includes CIS130, CIS146, and all DPT courses noted for the degree.
7. Any comments or problems regarding the Plan of Study, please contact one of the CIS Advisors: (1) Mr. Matri Chandrasoma, 334.420.4464, mchandrasoma@trenholmstate.edu; (2) Ms. Melissa Pickett, 334.420.4390, mpickett@trenholmstate.edu; (3) Ms. Regina Rudolph, 334.420.4353, rrudolph@trenholmstate.edu; (4) Mr. Syed Raza, 334.420.4389, sraza@trenholmstate.edu; or, (5) Dr. Ken Scott, 334.420.4392, kscott@trenholmstate.edu.

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Certifications Emphasized (Subject to Change): CCNA, MCDST, CIW, Linux+, Security+, A+. The CIS Program of Study is Accredited by Accreditation Board for Engineering and Technology (ABET) (under development).

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Suggested Order of Plan of Study

Note: If a student is required to complete transitional courses, this schedule WILL be impacted in number of courses and length of program for completion.

I. First Semester of Enrollment (5 Classes = 13 Hours)

C	CIS130 Introduction to Information Systems	C	DPT110 Introduction to Computer Logic and Programming
C	DPT203 Introduction to the Information Highway	G	ENG101 English Composition I
G	ORI101 Orientation to College	T	*Transitional Courses, if Applicable: SEE YOUR ADVISOR*

Courses that may be taken in Semester 1 or 2: DPT110, DPT161, DPT203, DPT249, ORI101

II. Second Semester of Enrollment (4 Classes = 12 Hours)

G	CIS146 Microcomputer Applications	C	DPT161 Networking Fundamentals
C	DPT249 Microcomputer Operating Systems	G	ENG102 English Composition II (or SPH 106 or ENG 130)
E	Approved DPT Elective OR DPT Concentration	T	*Transitional Courses, if Applicable: SEE YOUR ADVISOR*

Courses that may be taken in Semester 2 or 3: DPT161, DPT207, DPT171

III. Third Semester of Enrollment (4 Classes = 12 Hours)

C	DPT117 Database Management Software Applications	C	DPT171 Fundamentals of Unix/Linux I
C	DPT207 Introduction to Web Development	G	MTH100 Intermediate College Algebra
E	Approved DPT Elective OR DPT Concentration	T	*Transitional Courses, if Applicable: SEE YOUR ADVISOR*

Courses that may be taken in Semester 3 or 4: DPT117, DPT171, DPT212

IV. Fourth Semester of Enrollment (4 Classes = 12 Hours)

C	DPT212 Visual Basic Programming	G	MTH110 Finite Mathematics
E	Approved DPT Elective OR DPT Concentration	E	Approved DPT Elective OR DPT Concentration
E	Approved DPT Elective OR DPT Concentration	T	*Transitional Courses, if Applicable: SEE YOUR ADVISOR*

V. Fifth Semester of Enrollment (4 Classes = 12 Hours)

C	DPT182 Help Desk Applications	G	PSY200 General Psychology
E	Approved DPT Elective OR DPT Concentration	E	Approved DPT Elective OR DPT Concentration
E	Approved DPT Elective OR DPT Concentration	T	*Transitional Courses, if Applicable: SEE YOUR ADVISOR*

VI. Sixth Semester of Enrollment (4 Classes = 12 Hours)

C	**DPT291 Case Study in Computer Science ***	G	ART100 Art Appreciation
E	Approved DPT Elective OR DPT Concentration	E	Approved DPT Elective OR DPT Concentration
E	Approved DPT Elective OR DPT Concentration	T	*Transitional Courses, if Applicable: SEE YOUR ADVISOR*

(* DPT291: Plan of Study Capstone Course: A Student MUST be within 2 semesters of graduation before taking DPT291 *

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Helpful Legend in the Table:
C – Required CIS Core Course;
E – Elective/Area of Concentration: Elective courses **Must Be Approved** by Advisor **PRIOR** to your enrollment in an elective course **OR Area of Concentration must be approved by your advisor also;**
G – Required General Education Course;
T – Transitional or Developmental Course; See your advisor (These MUST be completed in the first semesters of your program); Examples: RDG083, MAH090, MAH098, ENG092, ENG093

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SUMMARY:

Semester 1: 5 Classes, 13 Credit Hours   **Semester 4:** 4 Classes, 12 Credit Hours
Semester 2: 4 Classes, 12 Credit Hours   **Semester 5:** 4 Classes, 12 Credit Hours
Semester 3: 4 Classes, 12 Credit Hours   **Semester 6:** 4 Classes, 12 Credit Hours

Associate in Applied Technology: Total of 76 Credit Hours

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Plan of Study Notes, Suggestions, and Recommendations:

1. Students Interested in Developing & Improving Workforce Skills are encouraged to read the following: (Subject to Change):

    (a) *Are They Really Ready To Work? Employers' Perspectives on the Basic Knowledge and Applied Skills of New Entrants to the 21st Century U.S. Workforce*: http://www.21stcenturyskills.org/documents/FINAL_REPORT_PDF09-29-06.pdf;

    (b) *Unlocking the DNA of the adaptable workforce: The global human capital study 2008*: http://www-935.ibm.com/services/us/gbs/bus/pdf/g510-6647-00.pdf;

    (c) *The Ill-prepared U.S. Workforce: Exploring challenges of employer-provided workforce readiness training*: http://www.astd.org/NR/rdonlyres/A7A0ECFF-333E-445C-BAA5-99486742F7F0/22788/Workforcekeyfindings0709final.pdf;

    (d) *BATEC (Boston Area Advanced Technological Education Connections), BATEC Information Technology Workforce Skills Study:* http://www.batec.org/download/BATEC%20Workforce%20Study%20Released.pdf;

    (e) *The Coming Tsunami: Leadership Challenges for Community Colleges:* http://cos.edu/ImageUpload_Links/The_Coming_Tsunami.pdf;

    (f) *The Looming Workforce Crisis: Preparing American Workers for 21st Century Competition*: http://www.competeamerica.org/resource/bibliography/Labor_Day_Report.pdf;

    (g) Valuable information regarding Work Ethics: http://www.workethics.org/.

2. **NOTE: Specialized Training Certificates** are located at: http://www.trenholmstate.edu, Catalog, Programs of Study, (Academic Division), CIS. The following Short Term Certificates in Computer Information Systems is available: (1) Networking (CCNA), 27 Credit Hours; (2) Networking (MCDST), 24 Credit Hours; (3) Database/Web Presence Applications/Design, 24 Credit Hours; (4) Programming via Object-Based Languages, 24 Credit Hours.

3. **Each student is responsible** for the content of their respective Plan of Study. This process requires continuous review of the Plan of Study, contacting an advisor with questions, scheduling courses to progress towards degree completion, and enrollment during periods of early advisement/enrollment to promote the student's success within their individual degree attainment.

4. **Special Note for DPT291 Case Study in Computer Science**: For each student in the CIS Program, you will be required to complete the DPT291 course which includes two very important components: (1) a case study, which is an original project that demonstrates a technology of your choosing and a validation process which has an outcome in a bound portfolio of your work; (2) an exit exam which includes a general Pass/Fail exam of your course content during your tenure in the CIS Program of Study. Content for the exit exam is provided during the orientation session of DPT291 for you to review prior to completion of the exit exam. The P/F does not determine your graduation; however, it is a general measurable outcome of your preparation in the CIS area for employment in the Information Technology field. **This course may be substituted ONLY with advisor approval.**

5. **Special Note for DPT284 DPT Internship**: It is HIGHLY RECOMMENDED that each student be placed in a position with an organization (off-campus, unless specifically approved for on-campus internships) that will enable students to obtain real-world skills development, as well as first-hand experiences of how soft skills are applied to the workforce expectations of IT graduates. A detailed bound journal is required for this course and will be made available to anyone interested in reviewing the experiences of students who participated in DPT284. **This course is OPTIONAL, but HIGHLY RECOMMDED.**

6. **Student E-portfolio.** It is recommended that all students develop an e-portfolio in their first semester of attendance at Trenholm State Technical College. Your advisor will provide you with an outline of the e-portfolio during your first semester advisement, as well as subsequent advising sessions. Materials are available which discuss the value and importance of student e-portfolios.

7. **Any comments or problems regarding the Plan of Study**, please contact one of the CIS Advisors: (1) Mr. Matri Chandrasoma, 334.420.4464, mchandrasoma@trenholmstate.edu; (2) Ms. Melissa Pickett, 334.420.4390, mpickett@trenholmstate.edu; (3) Ms. Regina Rudolph, 334.420.4353, rrudolph@trenholmstate.edu; (4) Mr. Syed Raza, 334.420.4389, sraza@trenholmstate.edu; or, (5) Dr. Ken Scott, 334.420.4392, kscott@trenholmstate.edu.