



Workforce Degrees and Certificates

Designed primarily for students desiring
Associate of Applied Science (AAS) Degrees and Certificates

★ *Total Certificate or Degree Offered*

☆ *Some Courses Offered*

DEGREES AND CERTIFICATES CLUSTERS	CF	K	M	NH	T	DL
Business Management & Leadership						
Accounting (page 95)						
AAS Degree (AAS.ACCS)	★	☆	★	★	★	☆
Accounting Certificate (C1.ACC1)	★	☆	★	★	★	☆
Professional Bookkeeper Certificate (C1.BKR1)	★	★	★	★	★	☆
Advanced Technical Certificate, Accounting (C4.ACC4)	★	☆	★	☆	★	
Aviation Management (page 100)						
AAS Degree (AAS.AVIM)				★		
Logistics Management (page 140)						
Logistics Management, Tech Prep (AAS.LOMT)	★	☆				
Certificate, First Line Logistics Leader (C1.LLL1)	★	★				
Management (page 142)						
AAS Degree, Tech Prep (AAS.MGMT)	★	★	★	★	★	★
AAS Degree, Hospitality Management, Tech Prep (AAS.HSMG)				★		☆
Certificate, Hospitality Operations (C1.HMG1)				★		
Certificate, General Business (C1.GBA1)	★	★	★	★	★	★
Certificate, Human Resource (C1.HRM1)	★	★	★	★	★	★
Certificate, International Business (C1.MIB1)	★	★	☆	★	★	☆
Certificate, Small Business Management (C1.MSB1)	★	★	★	★	☆	★
Certificate, Marketing (C1.MMK1)	★	★	☆	★	★	★
Professional Office Technology (page 161)						
AAS Degree, Bus Administrative Support Spec, Tech Prep (AAS.BADS)	★	★	★	★	★	
Certificate, Administrative Assistant (C2.ADA2)	★	★	★	★	★	★
Certificate, Administrative Support (C1.ADS1)	★	★	★	★	★	★
Certificate, Bilingual Office (C1.BOS1)	★	☆	☆	★	★	★
Certificate, Office Assistant (C1.OAS1)	★	★	★	★	★	★
Legal Office Technology (page 165)						
Legal Office, Tech Prep (AAS.OLOS)		★	☆	☆	☆	★
Certificate, Legal Administrative Assistant (C2.LAD2)		★	☆	☆	☆	★
Certificate, Legal Office Assistant (C1.LES1)		★	☆	☆	☆	★
Certificate, Legal Office Receptionist (C1.LOR1)		★	☆	☆	☆	★
Computer Technology						
Audio Visual Systems Specialist (page 97)						
AAS Degree, Tech Prep (AAS.AVSS)			★			
Certificate, Audio Visual Systems Specialist, Level II (C2.AVS2)			★			
Certificate, Audio Visual Systems Specialist, Level I (C1.AVS1)			★			

WORKFORCE DEGREES AND CERTIFICATES

DEGREES AND CERTIFICATES CLUSTERS	CF	K	M	NH	T	DL
Computer Information Technology (page 102)						
Certificate, Information Technology (C1.CIT1)	★	★	★	★	★	★
Networking – Cisco and Microsoft (page 104)						
Computer Networking Specialization, Tech Prep Microsoft (AAS.CNMS)	★	★	☆	★	★	☆
Computer Networking Specialization, Tech Prep Cisco (AAS.CNCI)	★	★	☆	★	★	
Certificate, Network Administrator, Microsoft (C1.MCSA)	★	★	☆	★	★	
Certificate, Network Administrator, Cisco (C1.CCNA)	★	★	☆	★	★	
Certificate, Network Engineer, Microsoft (C1.MCSE)	★	★	☆	★	★	
Certificate, Network Engineer, Cisco (C1.CCNP)	★	★	☆	★	★	
Network Security Advanced Technical Certificate (C4.NTS4)	★	★	☆	★	★	
Computer Programming (page 107)						
Programming Specialist, Tech Prep (AAS.CSPS)	★	★	★	★	★	☆
Enhanced Skills Certificate, C++ Program Cert (C3.CCP3)	★	★		★	★	
Certificate, Programming Specialist Certificate (C1.CPS1)	★	★	★	★	★	☆
Computer Applications (page 110)						
E-Business Web Developer, Tech Prep (AAS.EBUS)	★	★		★		☆
Database Administration Specialization, Tech Prep (AAS.DATA)		☆	☆	☆	★	☆
Enhanced Skills Certificate, Visual Basic Certification (C3.CVB3)	★	★		★	★	
Certificate, E-Business Web Developer (C1.WEB1)	★	★	★	★		☆
Certificate, Database Administration (C1.DAT1)		☆	☆	☆	★	
Certificate, PC Desktop Specialist (C1.PCDS)	★	★	★	★	★	★
Certificate, Microsoft Office Specialist (C1.MSO1)	★	★	★	★	★	★
Certificate, Computer-Aided Design Operator/Drafting (C1.EDD1)	★			★	★	
Computer Engineering Techn Specialization, Tech Prep (AAS.CETS)	★	★		☆		
PC Helpdesk (page 106)						
Certificate, PC Support Specialist (C2.PCSS)	★	★	★	★	★	★
Geographic Information Systems (page 125)						
AAS Degree, Tech Prep (AAS.GINS)	★			☆		
Certificate, Geographic Information Systems Analyst (C1.GIA1)	★			☆		
Certificate, Geographic Information Systems Technician (C1.GIT1)	★			☆		
Visual Communication (page 172)						
Visual Communication, Tech Prep	★	★	☆	★	☆	☆
3D Animation Track (AAS.VSC3)	☆	☆	☆	★	☆	☆
Graphic Design Track (AAS.VSCG)	★	★	☆	★	☆	☆
Multimedia Track (AAS.VSCM)	★	★	☆	★	☆	☆
Video and Post-Production Track (AAS.VSCV)	★	★	☆	★	☆	☆
Web Design Track (AAS.VSCW)	☆	☆	☆	★	☆	☆
Certificate, Graphic Design (C2.GRP2)	★	★	☆	★	☆	☆
Certificate, Multimedia Designer (C1.MDE1)	★	★	☆	★	☆	☆
Certificate, Video Post Production (C1.VPP1)	★	★	☆	★	☆	
Certificate, Web Design (C1.MWD1)	☆	☆	☆	★	☆	☆
Certificate, 3D Animation (C1.ANI1)	☆	☆	☆	★	☆	☆
Certificate, Motion Graphics (C1.MTG1)	★	★	☆	★	☆	☆
Computer Gaming (page 108)						
Game Designer (Artist) Track (AAS.GDSA)		★			☆	

DEGREES AND CERTIFICATES CLUSTERS	CF	K	M	NH	T	DL
Game Developer (Programming) Track (AAS.GDSP)		★			☆	
Certificate, Game Designer (Artist) (C2.GDA2)	☆	★	☆	☆	★	
Certificate, Game Developer (Programming) (C2.GDP2)	☆	★	☆	☆	★	
Integrated Technology (page 103)						
AAS Degree, Integrated Technology, Tech Prep (AAS.ITEC)	☆	☆	☆	★	☆	
Certificate, Integrated Technology Advanced (C2.ITA2)	☆	☆	☆	★	☆	
Certificate, Integrated Technology Basic (C1.ITB1)	☆	☆	☆	★	☆	
Wireless Telecommunications (page 123)						
Wireless Telecommunications Technology, Tech Prep (AAS.WRLS)		☆			★	
Certificate, Wireless Telecommunications Technology (C1.WRL1)	☆	☆			★	
Health Science Professions						
Biotechnology (page 100)						
AAS Degree (AAS.BIOT)		☆	★		☆	
Biotechnology, Advanced Technical Certificate (C4.BIO4)			★			
Dental Hygiene (page 114)						
AAS Degree, Dental Hygiene (AAS.DNHY)		★				
Diagnostic Medical Sonography (page 115)						
AAS Degree (AAS.SONO)	★					
Enhanced Skills Certificate, Non-Invasive Vascular Technology (C3.NIV3)	★					
Advanced Technical Certificate, Sonography (C4.SON4)	★					
Emergency Medical Services Professions (page 117)						
AAS Degree, Tech Prep (AAS.EMST)	★			★		
Certificate, Emergency Medical Services Prof Paramedic (C1.EMP1)	★	☆		★	☆	
Certificate, Emergency Medical Services Prof Intermediate (C1.EMI1)	★	☆		★	☆	
Health Information Technology (page 127)						
AAS Degree, Tech Prep (AAS.HINT)				★		
Medical Assisting (page 144)						
Certificate, Medical Assisting (C1.MED1)	★			★		
Medical Coding (page 128)						
Certificate, Physician Office-Based Billing & Coding (C1.POB1)				★		
Certificate, Hospital-Based Coding (C2.HBC2)				★		
Medical Office Technology (page 163)						
Medical Office Administrator, Tech Prep (AAS.MOAD)		★	★	★	★	☆
Certificate, Medical Administrative Assistant (C2.MAA2)		★	★	★	★	★
Certificate, Medical Office Receptionist (C1.MOR1)		★	★	★	★	★
Certificate, Medical Front Office (C1.MFO1)		★	★	★	★	☆
Medical Radiologic Technology (page 145)						
AAS Degree (AAS.MRDR)	★		★			
Medical Transcription (page 129)						
Certificate, Medical Transcription (C1.MTR1)		★		★		
Nursing (page 147)						
Associate Degree Nursing (integrated curriculum), Tech Prep (AAS.AADN)		★	★	★	★	

WORKFORCE DEGREES AND CERTIFICATES

DEGREES AND CERTIFICATES CLUSTERS	CF	K	M	NH	T	DL
Associate Degree Nursing (block curriculum) (AAS.ADNB)	★					
Transition to Professional Nursing for Articulating Students (AAS.PRNR)		★	★	★	★	
Certificate, Nursing Assistant (C1.ANA1)		★	★	★	★	
Certificate, Vocational Nursing ADN to VN Elective (C2.AVN2)				★		
Certificate, Vocational Nursing (C2.PRN2)	★	★	★		★	
Occupational Therapy Assistant (page 153)						
AAS Degree (AAS.OCTA)		★			★	
Pharmacy Technology (page 157)						
Certificate, Pharmacy Technology (C1.PHR1)				★	★	
AAS Degree, Pharmacy Technology (AAS.PHRT)				★	☆	
Physical Therapist Assistant (page 159)						
AAS Degree (AAS.PHTA)			★			
Respiratory Care (page 166)						
AAS Degree (AAS.RESC)		★				
Surgical Technologist (page 168)						
Certificate, Surgical Technologist (C1.SGT1)					★	
Veterinary Technology (page 169)						
AAS Degree, Tech Prep (AAS.VETT)					★	
Certificate, Veterinary Technology (C1.VET1)					★	
Service Professions						
Child Development and Family Studies <i>Deactivated:</i> Courses will continue to be offered for students to complete their degree or certificate. Contact faculty for more information.						
Cosmetology (page 111)						
AAS Degree (AAS.COSM)		★		★		
Certificate, Facial Specialist (C1.FCL1)		★		★		
Certificate, Cosmetology Instructor (C1.CIN1)		★		★		
Certificate, Cosmetology Operator (C1.COP1)		★		★		
Facilities Management (page 137)						
AAS Degree, Tech Prep (AAS.FCMT)		★				
Fire Science Technology (page 124)						
AAS Degree (AAS.FSCT)	★					
Certificate, Basic Structural Firefighter (C1.BFF1)	★		★			
Human Services (page 132)						
General Human Services Track (AAS.HSGN)			★			
Substance Abuse Counseling Track (AAS.HSSA)			★			
Certificate, Basic Chemical Dependency Counselor (C1.HBCD)			★			
Certificate, Human Services (C1.HSC1)			★			
Interior Design Technology (page 136)						
AAS Degree (AAS.IDES)		★				
Certificate, Design Essentials (C1.HDC1)		★				

DEGREES AND CERTIFICATES CLUSTERS	CF	K	M	NH	T	DL
Interpreter Training Technology (page 137)						
AAS Degree, Tech Prep (AAS.INTP)	★			★		
Certificate, ASL Communication Skills (C1.INT1)	★			★		
Paralegal Studies (page 155)						
AAS Degree, Tech Prep (AAS.PLGL)				★		
Advanced Technical Certificate, Paralegal Studies (C4.PLG4)				★		
Manufacturing and Industrial Professions						
Automotive Technology (page 98)						
AAS Degree, Tech Prep (AAS.AUTO)				★		
Certificate, Chassis and Electrical Technician Specialization (C1.CET1)				★		
Certificate, Power Train and Driveability Specialization (C1.PTD1)				★		
Certificate, General Service Technician (C1.GST1)			★	★		
Electrician (page 116)						
Residential/Commercial Electrician Certification (C1.REC1)					★	
Engineering Technology (page 120)						
Architectural Engineering Technology, Tech Prep (AAS.EDAE)		☆	☆	★		
Mechanical Engineering Technology, Tech Prep (AAS.EDME)		☆	☆	★		
Pre-Engineered Metl Bldg Draft/Design Specialz, Tech Prep (AAS.EDMB)	★			★		
Certificate, Basic Electronics (C1.ELTE)	★			☆	☆	
Industrial Controls (AAS.ELTI) and Industrial Electrical Technology Certificate (C1.IET1) Deactivated: Courses will continue to be offered for students to complete their degree or certificate. Contact faculty for more information.						
Heating, Ventilation, AC & Refrigeration Technology (page 130)						
AAS Degree, Tech Prep (AAS.AIRC)				★		
Certificate, Heating, Ventilation, AC Residential Servicing (C1.AIR1)				★		
Certificate, Heating, Ventilation, AC Commercial Servicing (C1.HCS1)				★		
Industrial Maintenance (page 134)						
Industrial Maintenance Technology (AAS.IDMT)	★					
Certificate, Industrial Maintenance Technology (C1.IMT1)	★					
Land Surveyor (page 138)						
AAS Degree, Land Surveying & Mapping Technology (AAS.SRVY)			★			
Certificate, Land Surveyor Level 1 (C1.SRV1)			★			
Machining Technology (page 141)						
Certificate, Computer Numeric Control Operator I (C1.CNA1)	★			★		
Certificate, Computer Numeric Control Operator II (C1.CNB1)	★			★		
Certificate, Machinist I (C1.MAC1)	★			★		
Welding and Inspection Technology (page 175)						
AAS Degree, Welding Technology, Tech Prep (AAS.WELD)	★			★		
Certificate, Welding Technology (C1.WEL1)	★			★		
AAS Degree, Inspection Technology (AAS.INSPI)				★		
Certificate, Inspection Technology (C1.INS1)				★		
Certificate, Metal Arts (C1.WMA1)	★					
Certificate, Metal Sculpture (C2.WMS2)	★					

WORKFORCE DEGREES AND CERTIFICATES

Requirements for the Associate of Applied Science:

A course cannot count toward more than one requirement of the degree with one exception – the multicultural requirement. See individual program or certificate degree plans for specific courses.

See individual programs for specific information

Core Component (General Education courses)	Course Options	Semester credit hours
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<u>COMPOSITION</u>	ENGL 1301	3 hours
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<u>MATH/NATURAL SCIENCES</u> ¹	BIOL 1322, 1406 or 1408, 1407 or 1409, 2401, 2402, 2404, 2406, 2416, 2420, 2421; CHEM 1105 and 1305 or 1405, 1411, 1412, 1419, 2423, 2425; ENVR 1401, 1402; GEOL 1403, 1404, 1405, 2307; MATH 1314, 1316, 1324, 1325, 1332, 1342, *1350, *1351, 2320, 2412, 2413, 2414, 2415; PHIL 2303; PHYS 1401, 1402, 1403, 1404, 1410, 2425, 2426	3 hours
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<u>SOCIAL/BEHAVIORAL SCIENCES</u>	ANTH 2301, <u>2346</u> , <u>2351</u> ; CRIJ 1301, 1307; ECON 2301, 2302; GEOG 1300, <u>1303</u> ; GOVT 2301, 2302, 2304; HIST 1301, 1302, 2301, 2311, 2312, <u>2321</u> , <u>2322</u> ; PSYC 2301, 2302, 2306, 2308, 2314, 2315, 2316, 2317, 2319 ; SOCI <u>1301</u> , 1306, 2301, <u>2319</u> , 2326	3 hours
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<u>HUMANITIES/ FINE ARTS</u>	ARTS <u>1301</u> , <u>1303</u> , <u>1304</u> , 1316, 2346, 2356, COMM 1318; DANC 2303; DRAM 1120, 1121, <u>1310</u> , 1330, 1351, 1352, 2120, <u>2361</u> , <u>2362</u> , <u>2366</u> ; ENGL 2307, 2322, 2323, 2327, 2328, <u>2332</u> , <u>2333</u> , 2341, <u>2342</u> , <u>2343</u> , <u>2351</u> ; HUMA <u>1301</u> , <u>1302</u> ; MUSI 1301, <u>1306</u> , <u>1308</u> , <u>1309</u> , <u>1310</u> , PHIL 1301, <u>1304</u> , 2306, 2321; FREN <u>2311</u> , <u>2312</u> ; GERM <u>2311</u> , <u>2312</u> ; ITAL <u>2311</u> , <u>2312</u> ; SPAN <u>2311</u> , <u>2312</u> , <u>2313</u> , <u>2315</u>	3 hours
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<u>ELECTIVE</u>	To meet NHMCCD core requirements (general education courses), see individual program degree plans for specific course.	3 hours
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<u>SPECIFIC WORKFORCE OR SUPPORT PROGRAM COURSES</u>		45-57 hours
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<u>MULTICULTURAL REQUIREMENTS</u>	Students must take one of the above underlined courses to meet the multicultural requirement of this degree or master the multicultural competencies contained in a specific degree program or take one of the following courses to meet the multicultural requirement of this degree. FREN 1300, 1310, 1411, 1412; GERM 1411, 1412; ITAL 1411, 1412; JAPN 1411, 1412; SGNL 1401, 1402, 2301, 2302; SPAN 1300, 1310, 1411,1412, 2306.	
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TOTAL (individual programs vary) **60-72 hours**

¹ Students must meet math competency. In AAS awards that include natural sciences rather than math courses, students must complete or place out of MATH 0308.

NOTE: Students must also meet computer literacy, wellness and communication competencies. The core component of this degree is 15 semester hours.

* Specifically designed for elementary and middle school teachers. Please see graduation requirements.

Prefixes Assigned to Programs & Disciplines

Accounting	ACCT, ACNT	Heating, Ventilation, Air Conditioning and Refrigeration	ELPT, HART, IEIR
Agriculture	AGRI	History	HIST
American Sign Language	SGNL	Hospitality Management	HAMG, HRMO, RSTO
Anthropology	ANTH	Humanities	HUMA
Arabic	ARAB	Human Development	HUMD
Art	ARTS	Human Services	CMSW, DAAC, GERS, SCWK
Audio Visual Systems Specialist	AVTS	Industrial Maintenance	HYDR, INMT, MCHN
Automotive Technology	AUMT	Interior Design Technology	INDS
Aviation Management	AIRP, AVIM	Interpreter Training Technology	SGNL, SLNG
Biology	BIOL	Italian	ITAL
Biotechnology	BITC	Japanese	JAPN
Business	BUSG, BUSI, HRPO	Journalism	COMM
Chemistry	CHEM	Kinesiology	KINE
Child Development and Family Studies	CDEC, TECA	Land Surveyor	SRVY
Chinese	CHIN	Logistics Management	LMGT
Computer Information Technology	BCIS, COSC, GAME, INEW, ITCC, ITMT, ITNW, ITSC, ITSE, ITSW, ITSY	Machining Technology	DFTG, INMT, MCHN
Cosmetology	CSME	Management	BMGT, BUSG, HRPO, IBUS, MRKG
Criminal Justice	CRIJ	Mathematics	MATH, TECM
Dance	DANC	Medical Assisting	MDCA, ECRD
Dental Hygiene	DHYG	Medical Radiologic Technology	CTMT, MRIT, RADR
Diagnostic Medical Sonography	DSVT, DMSO	Music	MUAP, MUEN, MUSI
Drama	DRAM	Associate Degree Nursing	RNSG
Economics	ECON	Occupational Therapy Assistant	OTHA
Education	EDUC	Paralegal Studies	LGLA
Electrician	ELPT	Pharmacy Technology	PHRA
Emergency Medical Services Professions	EMSP	Philosophy	PHIL
Engineering	ENGR	Physical Therapist Assistant	PTHA
Engineering Design Graphics Technology	ARCE, CETT, CNBT, DFTG, ENTC, HART, IEIR, INMT, MCHN	Physics	PHYS
Engineering Technology	CETT, CPMT, DFTG, EECT, ELMT, IEIR, INMT, INTC, PTRT, RBTC	Professional Office Technology	ITSC, ITSW, POFL, POFM, POFT
English	ENGL	Psychology	PSYC
Environmental Science	ENVR	Respiratory Care	RSPT
Fire Science Technology	FIRS, FIRT	ROTC	AFSC, MSCI
French	FREN	Sociology	SOCI
Geographic Information Systems	GISC	Spanish	SPAN
Geography	GEOG	Speech	SPCH
Geology	GEOL	Surgical Technology	SRGT
German	GERM	Veterinary Technology	VTHT
Government	GOVT	Visual Communication	ARTC, ARTV, GRPH, ITSW, FLMC, IMED, RTVB
Health Information Technology	HITT, HPRS, MRMT	Vocational Nursing	VNSG
		Welding Technology	METL, NDTE, QCTC, WLDG

WORKFORCE DEGREES AND CERTIFICATES

Crosswalk of Courses

Visit our Web site at <http://www.lonestar.edu/coursecrosswalk> to see a crosswalk of course revisions. This crosswalk revision will identify the new course & the course it replaces due to course number, course prefix or title changes.

Old (2007-2008) Course

New (2008-2009) Course

FIRT 1331 Firefighting Strategies & Tactics I	FIRT 2309 Firefighting Strategies & Tactics
FIRT 1355 Methods of Teaching	FIRT 2305 Fire Instructor I & FIRT 2307 Fire Instructor II
FLMC 1331 Computers in Video Production I	FLMC 1331 Video Graphics & Visual Effects I
FLMC 2331 Computers in Video Production II	FLMC 2331 Video Graphics & Visual Effects II
IMED 1316 Web Page Design I	IMED 1316 Web Design I
IMED 1341 2-D Interface Design	IMED 1341 Interface Design
IMED 2315 Web Page Design II	IMED 2315 Web Design II
INDS 1371 Kitchen & Bath	INDS 2310 Kitchen & Bath
ITCC 1491 Exploration Network Fundamentals	ITCC 1401 Exploration Network Fundamentals
ITCC 1472 Exploration Routing Protocols & Concepts	ITCC 1404 Cisco Exploration 2-Routing Protocols & Concepts
ITCC 1473 Exploration LAN Switching & Wireless	ITCC 2408 Cisco Exploration 3-LAN Switching & Wireless
ITCC 1474 Exploration Accessing the WAN	ITCC 2410 Cisco Exploration 4-Accessing the WAN
ITCC 2471 Building Scalable Internetworks	ITCC 2450 Building Scalable Internetworks
ITCC 2472 Implementing Secure Converged Wide-Area Networks	ITCC 2451 Implementing Secure Converged Wide-Area Networks
ITCC 2473 Building Multilayer Switched Networks	ITCC 2452 Building Multilayer Switched Networks
ITCC 2474 Optimizing Converged Cisco Networks	ITCC 2453 Optimizing Converged Networks
ITMT 2400 MCSE V 70-294, Planning, Implementing & Maintaining a MS Server 2003 Active Directory Infrastructure	ITMT 2400 Planning, Implementing, & Maintaining a MS Windows Server 2003 Active Directory Infrastructure
ITMT 2430 MCSE VI 70-297, Designing a MS Windows Server 2003 Active Directory & Network Infrastructure	ITMT 2430 Designing a MS Windows Server 2003 Active Directory Infrastructure
ITMT 2440 MCSE VII, 70-298, Designing Security for Microsoft Networks	ITMT 2440 Designing Security for Microsoft Networks
ITSC 2335 Application Problem Solving	ITSC 2335 Application Software Problem Solving
ITSC 2439 PC Helpdesk	ITSC 2439 PC Help Desk Support
ITSE 1356 Introduction to XML	ITSE 1356 Extensible Markup Language (XML)
ITSE 2454 Advanced Oracle SQL	ITSE 2454 Advanced Oracle PL/SQL