INTERPRETER TRAINING TECHNOLOGY

The interpreter training technology associate of applied science degree prepares graduates for entry-level careers as American Sign Language/English Interpreters. The interpreter training technology program will provide graduates with a strong academic and technical foundation designed to prepare them for state certification.

The interpreter training technology associate of applied science degree requires the completion of 67-68 semester credit hours of coursework including 30-31 semester credit hours of general academic courses and 37 semester credit hours of technical coursework. The program includes a supervised internship as a capstone external learning experience, which integrates all instructional components of the program.

Students may also earn an ASL communications skills certificate. This 21 credit hour program concentrates on developing skills that are required for simple communication with ASL speakers. It is not intended to prepare students to perform as interpreters. Students who desire those skills should complete the associate of applied science degree.

The general education core will transfer to a variety of colleges and universities. Contact a counselor or faculty member at any of the colleges for specific information and to obtain the recommended sequencing of courses.

ASL COMMUNICATIONS SKILLS CERTIFICATE

(C1_INT1 certificate offered at LSC-CyFair and North Harris)

FIRST YEAR Credit

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1301</td>
<td>Composition &amp; Rhetoric I</td>
<td>3</td>
</tr>
<tr>
<td>SGNL 1401</td>
<td>Beginning Amer. Sign Lang. I</td>
<td>4</td>
</tr>
<tr>
<td>SLNG 1215</td>
<td>Visual/Gestural Communication</td>
<td>2</td>
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<tr>
<td>SLNG 1317</td>
<td>Intro to the Deaf Community</td>
<td>3</td>
</tr>
<tr>
<td>SGNL 1402</td>
<td>Beginning Amer. Sign Lang. II</td>
<td>4</td>
</tr>
<tr>
<td>SLNG 1211</td>
<td>Fingerspelling</td>
<td>2</td>
</tr>
<tr>
<td>SLNG 1321</td>
<td>Intro to the Interpreting Prof.</td>
<td>3</td>
</tr>
<tr>
<td>SLNG 1347</td>
<td>Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>SPCH</td>
<td>Elective</td>
<td>3</td>
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<tr>
<td>Elective</td>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>SLNG 2401</td>
<td>Interpreting I</td>
<td>4</td>
</tr>
<tr>
<td>KINE</td>
<td>Any physical activity course</td>
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</tr>
</tbody>
</table>

TOTAL Credit Hours for ASL Communications Skills Certificate 21

1 Capstone course

SECOND YEAR Credit

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>Elective1</td>
<td>Math/Natural Science</td>
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<tr>
<td>ITSC 1401</td>
<td>Introduction to Computers</td>
<td>4</td>
</tr>
<tr>
<td>SGNL 2301</td>
<td>Intermed. Amer. Sign Lang I</td>
<td>3</td>
</tr>
<tr>
<td>SLNG 2315</td>
<td>Interpreting in Educ. Settings</td>
<td>3</td>
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<tr>
<td>SLNG 2402</td>
<td>Interpreting II</td>
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<td>SGNL 2302</td>
<td>Intermed. Amer. Sign Lang. II</td>
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<td>SLNG 2431</td>
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<tr>
<td>SLNG3 2589</td>
<td>Internship</td>
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TOTAL Credit Hours for AAS Degree 67-68

1 Either social/behavioral science or humanities/fine arts elective must meet multicultural requirement. See general education requirements for AAS degree listed in the catalog.

2 See core requirements for AAS degree for options. If science option is chosen, math competency must be met (MATH 0308 or higher).

3 Capstone course

LAND SURVEYING & MAPPING TECHNOLOGY

The land surveying & mapping technology program prepares students to enter a high-tech profession that uses state-of-the-art equipment to determine the location and measurement of improvements and other physical features on the earth’s surface. Surveying is an integral component for land development by civil engineers, municipal planners, and the construction industry. As a land surveying and mapping technician, one may conduct projects that include boundary, control, hydrographic, photogrammetric and engineering design surveys,
with a typical client base of engineers, architects, municipalities, real estate and land developers, along with federal, state and local transportation agencies, and the petrochemical industry.

The associate of applied science degree is awarded for successful completion of at least 61 credit hours as outlined in the college catalog. Students desiring a less comprehensive program should consider either the 11 credit hour marketable skills award or the 33-36 credit hour certificate.

Each level of training prepares a student for different levels of certifications that are becoming highly valued by employers in the surveying industry. The marketable skills award prepares a student to take the National Society of Professional Surveyors (NSPS) Level I Certification for the Survey Technician Certification. The 33-36 credit hour certificate prepares a student to take the NSPS Level II and Level III Certification for the Survey Technician. The associate of applied science degree prepares students to take either the NSPS Level IV Certification for the Survey Technician or with two years of experience, to take the Texas Board of Professional Land Surveying (TBPLS) Surveyor-in-Training (S.I.T.) exam. If a student continues and completes a bachelor’s degree (in any field) and has the required 2 years experience as an S.I.T., the student may sit for the Registered Professional Land Surveyor exam.

The general education core courses as well as several individual surveying and drafting courses will transfer to a variety of universities. Contact the divisional counselor for specific information and to obtain the recommended sequencing of courses at (936) 273-7320.

The following Web site has more information about this program: http://montgomery.LoneStar.edu/surveyor/

**MARKETABLE SKILLS AWARD LAND SURVEYOR**
(MSC_SRVY award offered at LSC-Montgomery)

**FIRST YEAR CREDIT**

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credit</th>
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<tr>
<td>SRVY 1301</td>
<td>Intro to Surveying</td>
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<tr>
<td>SRVY 1413</td>
<td>Plane Surveying</td>
<td>4</td>
</tr>
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<td>SRVY 1441</td>
<td>Land Surveying</td>
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**TOTAL Credit Hours for Marketable Skills Award** 11

**LAND SURVEYOR CERTIFICATE**
(C1_SRV1 certificate offered at LSC-Montgomery)

**FIRST YEAR CREDIT**

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>SRVY 1301</td>
<td>Intro to Surveying</td>
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</tr>
<tr>
<td>DFTG 1309</td>
<td>Basic Computer-Aided Drafting</td>
<td>3</td>
</tr>
<tr>
<td>SRVY 1413</td>
<td>Plane Surveying</td>
<td>4</td>
</tr>
<tr>
<td>SRVY 1441</td>
<td>Land Surveying</td>
<td>4</td>
</tr>
<tr>
<td>SRVY 2343</td>
<td>Surveying Legal Principles I</td>
<td>3</td>
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<tr>
<td>SRVY 2313</td>
<td>Control Surveying</td>
<td>3</td>
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<tr>
<td>SRVY 1315</td>
<td>Surveying Calculation I</td>
<td>3</td>
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<tr>
<td>SRVY 1319</td>
<td>Intro to GIS</td>
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**SECOND YEAR CREDIT**

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<td>Surveying Calculation II</td>
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<tr>
<td>SRVY 1342</td>
<td>GPS Techniques for Surveying and Mapping</td>
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<tr>
<td>SRVY 2487</td>
<td>Internship OR</td>
<td>1-4</td>
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**TOTAL Credit Hours for Land Surveyor Certificate** 33-36

1 Capstone course

**LAND SURVEYING AND MAPPING TECHNOLOGY**

**Associate of applied science degree**
(AAS_SRVY degree offered at LSC-Montgomery)

**FIRST YEAR CREDIT**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRVY 1301</td>
<td>Intro to Surveying</td>
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<tr>
<td>DFTG 1309</td>
<td>Basic Computer-aided Drafting</td>
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<td>SRVY 1413</td>
<td>Plane Surveying</td>
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<td>SRVY 1441</td>
<td>Land Surveying</td>
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<td>SRVY 2343</td>
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<td>SRVY 2313</td>
<td>Control Surveying</td>
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<tr>
<td>SRVY 1315</td>
<td>Surveying Calculation I</td>
<td>3</td>
</tr>
<tr>
<td>SRVY 1319</td>
<td>Intro to GIS</td>
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<tr>
<td>ENGL 1301</td>
<td>Composition and Rhetoric</td>
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**SECOND YEAR CREDIT**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>SRVY 1349</td>
<td>Surveying Calculation II</td>
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</tr>
<tr>
<td>SRVY 1342</td>
<td>GPS Techniques for Surveying and Mapping</td>
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<tr>
<td>MATH 1314</td>
<td>College Algebra</td>
<td>3</td>
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<td>SPCH 1311</td>
<td>Intro to Speech OR</td>
<td>3</td>
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<tr>
<td>SPCH 1318</td>
<td>Interpersonal Communication OR</td>
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<tr>
<td>SPCH 1321</td>
<td>Business and Professional Communication</td>
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<tr>
<td>Elective2</td>
<td>Social/Behavioral Science</td>
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<tr>
<td>SRVY 2344</td>
<td>Legal Principles II</td>
<td>3</td>
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<tr>
<td>DFTG 2321</td>
<td>Topographical Drafting</td>
<td>3</td>
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<td>Elective2</td>
<td>Humanities/Fine Arts Elective</td>
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<td>MATH 1316</td>
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<td>Elective2</td>
<td>Multicultural Elective</td>
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</table>

Elective courses must be chosen from the general education core, humanities, social/behavioral science, or physical sciences categories. Each level of training prepares a student for different levels of certifications that are becoming highly valued by employers in the surveying industry.
DEGREES AND CERTIFICATES

SRVY3 2487 Internship OR 1-4
SRVY3 1171 Capstone Exam Review

TOTAL Credit Hours for Land Surveying and Mapping Technology AAS 61-64

1 Meets computer competency
2 Choose from AAS core requirements
3 Capstone course

LOGISTICS MANAGEMENT

Logistics management is a business management program that prepares graduates for employment in the areas of supply chain management, inventory control, materials management, and distribution. The field of logistics management includes occupations such as supervisors and/or managers of transportation, storage, and/or distribution; helpers, laborers, and/or hand material movers; transportation/machine and vehicle material movers; and freight forwarding. By focusing on efficiency, logistics managers reduce costs in many areas and add value to the bottom line.

Persons employed in the storage and distribution arena plan, direct, and coordinate the storage and distribution operations within an organization. With the aid of industry-specific software, many managers are able to more efficiently prepare and review invoices, work orders, and consumption reports. Similarly, shipping and transportation managers utilize resource planning software systems to improve the speed and efficiency of shipping and receiving. These managers supervise and coordinate the activities of transportation and material moving machines and vehicle operators.

Transportation, storage, and distribution managers and logisticians are classified as in-demand occupations found in national high growth industries and are projected to add substantial numbers of new jobs in Texas.

The AAS degree in logistics management is a four semester program consisting of courses from the core academic area, business management, and logistics management. The Lone Star College-CyFair logistics management AAS degree has incorporated Texas Skill Standards into the curriculum and received the Texas Skills Standards Board (TSSB) recognition. The Texas Skills Standards enhance the logistics management curriculum and give students more marketable skills needed for the industry. LSC-CyFair also offers the basic logistics certificate as a one-semester program of three courses, and the first line logistics leader certificate as a one-semester program of five courses.

BASIC LOGISTICS CERTIFICATE
(MSC_LOMT award offered at LSC-CyFair)

FIRST YEAR Credit
LMGT 1425 Warehouse & Distrib Ctr Mgmt. 4
LMGT 1319 Intro to Business Logistics 3
LMGT 1321 Intro to Materials Handling 3

TOTAL Credit Hours for Marketable Skills Certificate 10

FIRST LINE LOGISTICS LEADER CERTIFICATE
(C1_LLL1 certificate offered at LSC-CyFair)

FIRST YEAR Credit
LMGT 1425 Warehouse & Distrib Ctr Mgmt. 4
LMGT 1319 Intro to Business Logistics 3
LMGT 1321 Intro to Materials Handling 3
BMGT 1301 Supervision 3
BMGT 2303 Problem Solving & Decision Making 3

TOTAL Credit Hours for First Line Logistics Leader Certificate 16

1 Capstone course

LOGISTICS MANAGEMENT

Associate of applied science degree, Tech Prep
(AAS_LOMT degree offered at LSC-CyFair)

FIRST YEAR Credit
ENGL 1301 Composition & Rhetoric I 3
TECM 1303 Technical Calculations 3
LMGT 1319 Intro to Business Logistics 3
LMGT 1425 Warehouse & Distrib Ctr Mgmt 4
ITSC 1401 Introduction to Computers OR
COSC 1401 Introduction to Computers OR
BCIS 1405 Business Computer Applications
LMGT 1345 Economics of Trans. & Distrib. 3
ACCT 2401 Principles of Accounting I 4
Elective1 Math/Science Elective 3-4
GEOG 1303 World Geography 3
KINE Any physical activity course 1
LMGT 1321 Introduction to Materials Handling 3

SECOND YEAR Credit
BMGT 1301 Supervision 3
DEGREES AND CERTIFICATES

LMGT 2434 Principles of Traffic Management 4
LMGT 1323 Domestic and International Trans 3
SPCH Elective 3
BMGT 2303 Problem Solving & Decision Making 3
BMGT 1309 Information & Project Mgmt. 3
LMGT 1393 Special Topics in Log/Mat. Mgmt. 3
BMGT 2382 Co-op: Business Admin. & Mgmt. I 3
Elective Humanities/Fine Arts 3
Elective Spanish Elective 3

TOTAL Credit Hours for AAS Degree 65-66

1 See core requirements for AAS degree for options. If science option is chosen, math competency must be met (MATH 0308 or higher).
2 Meets multicultural requirement
3 SPCH 1311, 1315, 1318, or 1321
4 Capstone course

MACHINING TECHNOLOGY

The computer numeric control operator/programmer certificate program is designed to prepare graduates for careers in the operation and programming of computer numeric control (CNC) mills and lathes used extensively in the manufacturing industries. Topics within the certificate program include blueprint reading, manufacturing materials and processes, computer-aided manufacturing (CAM), and extensive hands-on set up, operation and programming of CNC mills and lathes.

CNC operator/programmer is classified as an evolving occupation and is likely to provide future employment growth and economic competitiveness within Texas.

COMPUTER NUMERIC CONTROL OPERATOR I CERTIFICATE

(C1_CNA1 certificate offered at LSC-CyFair and North Harris)

FIRST YEAR Credit
DFTG 1325 Blueprint Reading and Sketching 3
MCHN 1338 Basic Machine Shop I 3
INMT 1443 CAD-CAM 4
MCHN 2334 Operation of CNC Machining Ctrs 3
MCHN 2331 Operation of CNC Turning Centers 3
MCHN 1391 Special Topics Machinist OR 3
MCHN 1381 Cooperative Education 3

TOTAL Credit Hours for Computer Numeric Control Operator I Certificate 19

1 Capstone course

COMPUTER NUMERIC CONTROL OPERATOR II CERTIFICATE

(C1_CNB1 certificate offered at LSC-CyFair and North Harris)

FIRST YEAR Credit
INMT 1443 CAD-CAM 4
MCHN 2438 Adv. Computer-Aided Manufacturing 4
MCHN 2303 Fund. of CNC Machine Controls 3
MCHN 2335 Advanced CNC Machining 3
MCHN 2381 Cooperative Education 3

TOTAL Credit Hours for Computer Numeric Control Operator II Certificate 17

1 Capstone course

MACHINIST I CERTIFICATE

(C1_MAC1 certificate offered at LSC-CyFair and North Harris)

FIRST YEAR Credit
DFTG 1325 Blueprint Reading and Sketching 3
MCHN 1338 Basic Machine Shop I 3
MCHN 1343 Machine Shop Math 3
MCHN 1352 Intermediate Machining I 3
MCHN 2341 Advanced Machining I 3
MCHN 2390 Special Topics Machinist OR Shop Asst. 3
MCHN 1380 Cooperative Education 3

TOTAL Credit Hours for Machinist I Certificate 18

1 Capstone course

MANAGEMENT

The management associate of applied science degree includes knowledge, skills, and attitudes necessary to succeed in the business world. This program provides students with a basic foundation in general management skills.

The management associate of applied science degree is awarded for successful completion of 66-68 credit hours. Those desiring a less comprehensive program should consider the certificate programs listed below.

The management program offers specializations in general business, human resources, international business, marketing, small business management, and entrepreneurship.

A wide variety of job opportunities are available to graduates of the program, including middle-man-
DEGREES AND CERTIFICATES

ENTREPRENEURSHIP MARKETABLE SKILLS CERTIFICATE
(MSC_MAEN certificate offered at LSC-CyFair, Kingwood, Montgomery, North Harris and Tomball)

FIRST YEAR Credit
BUSG 1341 Small Business Financing 3
BUSG 2309 Small Business Management/Entrepreneurship 3
BUSG 2371 Entrepreneurial Marketing 3

TOTAL Credit Hours for Entrepreneurship Marketable Skills Certificate 9

GENERAL BUSINESS CERTIFICATE
(C1_GBA1 certificate offered at LSC-CyFair, Kingwood, Montgomery, North Harris and Tomball)

FIRST YEAR Credit
BUSI 1301 Business Principles 3
ITSC 1401 Introduction to Computers OR 4
COSC 1401 Introduction to Computers OR 4
BCIS 1405 Business Computer Applications 3
BMGT 1341 Business Ethics 3
Elective\(^1\) Specialization Elective 3
Elective\(^1\) Specialization Elective 3
Elective\(^1\) Specialization Elective 3
BMGT\(^2\) 2382 Cooperative Education OR 3
BMGT\(^2\) 2388 Internship 3

TOTAL Credit Hours for General Business Certificate 22

1 The specialization electives are chosen from any BUSI, BMGT, BUSG, HRPO, IBUS or MRKG course.
2 Capstone course

HUMAN RESOURCE CERTIFICATE
(C1_HRM1 certificate offered at LSC-CyFair, Kingwood, Montgomery, North Harris and Tomball)

FIRST YEAR Credit
HRPO 1311 Human Relations 3
HRPO 2301 Human Resources Management 3
ITSC 1401 Introduction to Computers OR 4
COSC 1401 Introduction to Computers OR 4
BCIS 1405 Business Computer Applications 3
BMGT 1301 Supervision OR 3
BMGT 1327 Principles of Management 3
HRPO 2307 Organizational Behavior 3
IBUS\(^1\) 2341 Intercultural Management 3
BMGT\(^2\) 2382 Cooperative Education OR 3
BMGT\(^2\) 2388 Internship 3

TOTAL Credit Hours for Human Resource Certificate 22

1 Meets multicultural requirements
2 Capstone course

INTERNATIONAL BUSINESS CERTIFICATE
(C1_MIB1 certificate offered at LSC-CyFair, Kingwood, North Harris and Tomball)

FIRST YEAR Credit
IBUS 1305 Intro to Internat’l Business & Trade 3
IBUS 1371 Principles of Import/Export 3
ITSC 1401 Introduction to Computers OR 4
COSC 1401 Introduction to Computers OR 4
BCIS 1405 Business Computer Applications 3
Elective\(^1\) Specialization Elective 3
IBUS 2341 Intercultural Management 3
IBUS 2345 Import Customs Regulations 3
BMGT\(^2\) 2382 Cooperative Education OR 3
BMGT\(^2\) 2388 Internship 3

TOTAL Credit Hours for International Business Certificate 22

1 The specialization elective is chosen from any BUSI, BMGT, BUSG, HRPO, IBUS or MRKG course.
2 Capstone course

MARKETING CERTIFICATE
(C1_MMK1 certificate offered at LSC-CyFair, Kingwood, Montgomery, North Harris and Tomball)

FIRST YEAR Credit
BMGT 1309 Information and Project Mgmt. OR 3
BMGT 1327 Principles of Management 3
MRKG 1301 Customer Relationship Mgmt. 3
ITSC 1401 Introduction to Computers OR 3-4
DEGREES AND CERTIFICATES

COSC 1401 Introduction to Computers OR
BCIS 1405 Business Computer Applications OR
ARTC 1313 Digital Publishing 1
MRKG 1311 Principles of Marketing 3
MRKG 2333 Principles of Selling 3
MRKG 2349 Advertising & Sales Promotion 3
BMGT/MRKG1 Capstone course 3

TOTAL Credit Hours for Marketing Certificate 21-22
1 Choose capstone course from MRKG 2348, 2380, 2388, BMGT 2382 or 2388

SMALL BUSINESS MANAGEMENT CERTIFICATE
(C1_MSB1 certificate offered at LSC-CyFair, Kingwood, Montgomery, North Harris and Tomball)

FIRST YEAR Credit
ACCT 2401 Principles of Accounting I 4
BUSI 2301 Business Law 3
ITSC 1401 Introduction to Computers OR 4
COSC 1401 Introduction to Computers OR
BCIS 1405 Business Computer Applications
MRKG 2333 Principles of Selling OR 3
MRKG 2348 Marketing Research & Strat.
BUSG 1341 Small Business Financing 3
BUSG1 2309 Small Business Management/Entrepreneurship 3
BUSI 1301 Business Principles 3

TOTAL Credit Hours for Small Business Certificate 23
1 Capstone course

MANAGEMENT

Associate of applied science degree, Tech Prep
(AAS_MGMT degree offered at LSC-CyFair, Kingwood, Montgomery, North Harris and Tomball)

FIRST YEAR Credit
BMGT 1327 Principles of Management 3
Elective Humanities/Fine Arts 3
ENGL 1301 Composition & Rhetoric I 3
ITSC 1401 Introduction to Computers OR 4
COSC 1401 Introduction to Computers OR
BCIS 1405 Business Computer Applications
MRKG 1311 Principles of Marketing OR 3
BUSG 2371 Entrepreneurial Marketing
ACCT 2401 Principles of Accounting I 4
BUSI 1301 Business Principles 3
ECON 2301 Macroeconomics OR 3
ECON 2302 Microeconomics
IBUS1 2341 Intercultural Management
SPCH 1315 Public Speaking OR 3

SPCH 1321 Business and Professional Communication 3

SECOND YEAR Credit
HRPO 1311 Human Relations OR 3
HRPO 2301 Human Resource Management
BMGT 1309 Information & Project Mgmt. 3
BUSI 2304 Business Communications 3
BUSI 1307 Personal Finance 3
BUSI 2301 Business Law 3
BMGT 1341 Business Ethics 3
Elective2 Cooperative Education OR 3
Internship
Elective3 Math/Natural Science 3-4
Elective4 Specialization 3-4
Elective4 Specialization 3
Elective4 Specialization 3
KINE 1111 Fitness for Life 1

TOTAL Credit Hours for Management AAS 66-68
1 Meets multicultural requirements
2 Any BMGT or MRKG Co-op or Internship; Capstone course
3 Suggested elective: MATH 1314 College Algebra; If science option is chosen, math competency must be met (MATH 0308 or higher).
4 The specialization electives are chosen from any BUSI, BMGT, BUSG, HRPO, IBUS or MRKG course.

MECHATRONICS TECHNOLOGY

Mechatronics is a new and exciting interdisciplinary field which combines knowledge of control systems, robotics, mechanical systems, electronics, computers, advanced manufacturing, industrial maintenance and more.

An electro-mechanical technician with mechatronics training would find entry-level employment in the LSCS service area in a modern advanced manufacturing company. More and more employers are seeking technicians with broad knowledge to troubleshoot and correct computer/machine errors before they impact the manufacturing line. Mechatronics is predominantly hands-on and involves work with state of the art computers, machines, and systems.

The level one certificate provides the student with fundamental knowledge of computers, robotics, electrical systems and controls. The level two certificate provides students with fundamental knowledge in mechanical systems and more advanced knowledge in robotics.
### Marketable Skills Award—Oil Field Service Technician

*(MSC_OFST award offered at LSC-CyFair and North Harris)*

**FIRST YEAR Credit**

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<th>Credit Hours</th>
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<tr>
<td>HYDR 1345</td>
<td>Hydraulics and Pneumatics</td>
<td>3</td>
</tr>
<tr>
<td>CETT 1409</td>
<td>DC-AC Circuits</td>
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<tr>
<td>PTRT 1424</td>
<td>Petroleum Instrumentation</td>
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**TOTAL Credit Hours for Oil Field Service Technician Marketable Skills Award**: 14

### Marketable Skills Award—Mechatronics Technology

*(MSC_METC award offered at LSC-CyFair and North Harris)*

**FIRST YEAR Credit**

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<thead>
<tr>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>COSC 1401</td>
<td>Introduction to Computers OR</td>
<td>4</td>
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<tr>
<td>ITSC 1401</td>
<td>Introduction to Computers</td>
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<td>DC-AC Circuits</td>
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<td>HYDR 1345</td>
<td>Hydraulics and Pneumatics</td>
<td>3</td>
</tr>
<tr>
<td>MCHN 1338</td>
<td>Basic Machine Shop I</td>
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</table>

**TOTAL Credit Hours for Mechatronics Marketable Skills Award**: 14

### Mechatronics Technology—Level I Certificate

*(C1_MET1 certificate offered at LSC-CyFair and North Harris)*

**FIRST YEAR Credit**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>COSC 1401</td>
<td>Introduction to Computers OR</td>
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</tr>
<tr>
<td>ITSC 1401</td>
<td>Introduction to Computers</td>
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<tr>
<td>CETT 1409</td>
<td>DC-AC Circuits</td>
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<td>Hydraulics and Pneumatics</td>
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<tr>
<td>MCHN 1338</td>
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**SECOND YEAR Credit**

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<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>INTC 1341</td>
<td>Principles of Automatic Control</td>
<td>3</td>
</tr>
<tr>
<td>INMT 2303</td>
<td>Pumps, Compressors &amp; Mechanical Drives</td>
<td>3</td>
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<tr>
<td>RBTC 1305</td>
<td>Robotic Fundamentals</td>
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<td>INMT 1417</td>
<td>Industrial Automation</td>
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<td>IIEI 1310</td>
<td>Motor Controls</td>
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<tr>
<td>INMT 2389</td>
<td>Internship Manufacturing Tech</td>
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</tbody>
</table>

**TOTAL Credit Hours for Mechatronics Technology-Level I Certificate**: 32

1 Capstone course

Note: Students must meet math competency (MATH 0308 or higher)

### Mechatronics Technology—Level II Certificate

*(C2_MET2 certificate offered at LSC-CyFair and North Harris)*

**FIRST YEAR Credit**

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<tbody>
<tr>
<td>COSC 1401</td>
<td>Introduction to Computers OR</td>
<td>4</td>
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<td>ITSC 1401</td>
<td>Introduction to Computers</td>
<td>4</td>
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<tr>
<td>CETT 1409</td>
<td>DC-AC Circuits</td>
<td>4</td>
</tr>
<tr>
<td>HYDR 1345</td>
<td>Hydraulics and Pneumatics</td>
<td>3</td>
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<tr>
<td>MCHN 1338</td>
<td>Basic Machine Shop I</td>
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<td>DFTG 1309</td>
<td>Basic Computer-Aided Drafting</td>
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<tr>
<td>ETWR 1302</td>
<td>Introduction to Technical Writing</td>
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**SECOND YEAR Credit**

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<td>INTC 1341</td>
<td>Principles of Automatic Control</td>
<td>3</td>
</tr>
<tr>
<td>INMT 2303</td>
<td>Pumps, Compressors &amp; Mechanical Drives</td>
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</tr>
<tr>
<td>INMT 2389</td>
<td>Internship Manufacturing Tech</td>
<td>3</td>
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</table>

**TOTAL Credit Hours for Mechatronics Technology-Level II Certificate**: 51

1 Capstone course

### Medical Assisting

Medical assisting is a versatile health care profession that prepares an individual to perform various clinical and administrative functions in a health care facility. These functions, performed under the direction of a licensed physician and/or licensed physicians assistant, are completed while examining and treating patients. Medical assistants are responsible for performing a variety of the tasks that enable a health care facility to properly treat its patients. These tasks include, but are not limited to: preparing treatment rooms for patients’ examinations; scheduling appointments and maintaining medical records; interviewing patients, measuring vital signs, weight and height, and then recording the information; administering injections, performing venipuncture, electrocardiograph (EKG), and other equipment to administer routine diagnostic
DEGREES AND CERTIFICATES

tests; and completing insurance forms. The exact duties that a medical assistant performs are unique to the setting in which she or he is employed. Industries that employ medical assistants include doctors’ offices/clinics, urgent care centers, ambulatory care facilities, and osteopathic offices/clinics.

The medical assisting certificate is a three-semester program. The final semester includes both a review course to prepare for the American Association of Medical Assistants’ Certified Medical Assistant Exam and a clinical/externship. The clinical experience allows students to apply the knowledge, skills, and abilities that she or he has learned in the classroom and gain practical experience in a health care setting. The program has the following goal defining minimum expectations: “To prepare competent entry-level medical assistants in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.”

Admission Criteria

Students applying to the medical assisting program must:

1. Complete an assessment test (THEA, Compass, ASSET, or equivalent) with college level scores on the reading and writing sections; or complete the developmental sequence in reading (ENGL 0305 or ENGL 0365) AND writing (ENGL 0307 or ENGL 0375) to be eligible to enter ENGL 1301.

2. Complete MATH 0306 with a grade of “C” or achieve placement into a higher level math through an assessment test (THEA, Compass, ASSET, or equivalent).

3. Register for and take the PSB Health Occupations Aptitude Test.

4. Attend a mandatory medical assisting information session as posted on the LSC-CyFair or North Harris Web site.

5. Submit a completed application packet to the preferred college’s medical assisting program. Application deadlines are posted on the college Web site.

6. Submit official high school/GED transcript and/or official transcripts from all non-LSCS colleges and/or universities attended.

7. Final acceptance into the program is contingent upon a satisfactory background check that is completed by a college approved agency at the student’s expense. Clinical facilities may also require completion of a satisfactory drug screening.

MEDICAL ASSISTING CERTIFICATE

(C1_MED1 certificate offered at LSC-CyFair and North Harris)

FIRST YEAR Credit

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>MDCA 1417</td>
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<td>MDCA 1421</td>
<td>Administrative Procedures</td>
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<tr>
<td>POFT 1325</td>
<td>Business Math &amp; Machine Apps</td>
<td>3</td>
</tr>
<tr>
<td>POFT 1301</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>MDCA 1409</td>
<td>A &amp; P for Medical Assistants</td>
<td>4</td>
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<tr>
<td>MDCA 1352</td>
<td>Medical Asst. Lab Procedures</td>
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<td>MDCA 1443</td>
<td>Medical Insurance</td>
<td>4</td>
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<td>MDCA 1291</td>
<td>Special Topics in Medical Assistant</td>
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<td>MDCA 1348</td>
<td>Pharmacology &amp; Administration of Medications</td>
<td>3</td>
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<tr>
<td>ECRD 1211</td>
<td>Electrocardiography</td>
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<tr>
<td>MDCA 1205</td>
<td>Medical Law and Ethics</td>
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<tr>
<td>MDCA 1154</td>
<td>Medical Assisting Credentialing Exam Review</td>
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<tr>
<td>MDCA 1264</td>
<td>Practicum (or field experience) - Medical/CLinical Assistant</td>
<td>2</td>
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TOTAL Credit Hours for Medical Assisting Certificate 39

1 Capstone Course

MEDICAL RADIOLOGIC TECHNOLOGY

The course of study for a radiologic technologist is a two-year program, leading to an associate of applied science degree. The program is offered at LSC-Montgomery and LSC-CyFair. Each college accepts one class each year into the radiologic technology program. The six-semester program includes two summer semesters, for a total of 72 credit hours.

The curriculum is a balance of general education and technical courses in the classroom and laboratory, as well as supervised clinical experiences at local hospitals and outpatient clinics. This combination provides the student an opportunity for educational development and assurance of competency in radiographic skills.
The program is designed to provide the student with the knowledge and skills to perform radiographic examinations, provide patient care and assist the radiologist during diagnostic procedures. Radiologic technologists are employed in medical centers, community hospitals, extended care facilities, physicians’ offices, specialist clinics, and other health care institutions.

Prior to entering the radiologic technology AAS degree program, students may take any of the general education core courses required in the program. Radiologic technology students must earn a grade of “C” or better in each radiography (RADR) course and maintain an overall grade point average of at least 2.0 to graduate from the radiologic technology program. To help assure success on the ARRT examination, the Lone Star College System (LSCS) radiography programs utilize an elevated grading scale. The general education core will transfer to a variety of colleges and universities. For more specific information and the sequence of courses at each college, contact the program director or a college counselor.

In addition to the tuition and textbooks for the radiologic technology courses, there are additional fees and expenses. Students are required to purchase uniforms and accessories. Each student accepted into the program is required to purchase student liability insurance (subject to rates applicable at the time of registration) and obtain current immunizations as required by the Texas Department of State Health Services for healthcare providers. Regulations require that students complete the Hepatitis B immunization series that may take between 3-6 months prior to patient contact. Each student is also responsible for his/her own transportation to the clinical areas.

Graduates of the radiologic technology AAS degree program are eligible to apply for the certification examination in radiologic technology given by the American Registry of Radiologic Technologists (ARRT); www.arrt.org. Graduates may also apply for Texas state certification through the Texas Department of State Health Services; www.dshs.state.tx.us/mrt/default.shtm

Go to the American Society of Radiologic Technologists Web site at www.asrt.org for more information about a career in radiologic technology.

Admission Criteria

Clinical space is limited, so students are admitted on a competitive basis. In addition to the general admission requirements of Lone Star College System (LSCS), the following requirements must be met in order to apply for admission to the medical radiologic technology (MRT) AAS program. Prior to submission of application:

1. If you have not taken classes at a LSC campus within the last year, you must apply to LSCS. If you need assistance with the application process, please contact Student Services at either the LSC-CyFair or LSC-Montgomery campus.
2. Submit an official transcript from each non-LSCS College or university you have attended to the admissions office at either the LSC-CyFair or LSC-Montgomery.
3. A cumulative grade point average (GPA) of at least a 2.0 in high school and/or college. If you have completed more than 24 semester hours of college courses, only the college GPA will be considered.
4. Declare a major in Medical Radiologic Technology (Code AAS_MRDR).
5. Required evidence of passing all sections of (Reading, Writing, and Math) of either:
   • TASP/THEA,
   • an alternative test (i.e. the ASSET or COMPASS),
   • or have met the complete TSI requirements
Consult an advisor to confirm your status.
6. Evidence that you are at college-level in math, reading, and writing (eligible to enroll in MATH 1314 and ENGL 1301 due to past college coursework or placement test scores).
7. Completion of pre-requisites BIOL 2404 OR BIOL 2401 AND BIOL 2402 with a “C” or better within the previous five years.
   • The courses must have been completed prior to submission of an application for the Radiologic Technology program (by the end of the summer semester in the year you are applying).
   • If coursework is older than 5 years when applying to the program, students must take BIOL 2404.
8. For each of the following courses completed, points will be earned towards the admission score based on the grade received for the course. (A = 4 points, B = 3 points, C = 2 points, D = 1 point)
   - MATH 1314
   - ENGL 1301
   - PSYC 2301
   - SPCH 1311, 1315, 1318, OR 1321
   - Approved electives in KINE
   - Approved Humanities/Fine Arts

9. For each of the following courses completed with a “C” or better, 1 point will be awarded to the admission score with a maximum of 5 points.
   - ITSC 1401 OR COSC 1401 OR BCIS 1405
   - EDUC 1300 Learning Framework
   - HPRS 1001 Intro to Health Professions
   - HITT 1305 Medical Terminology I
   - HPRS 2300 Pharmacology for Health Professions
   - HPRS 2301 Pathophysiology
   - HPRS 2321 Med. Law & Ethics for Health Professions

10. If you have work or volunteer experience in the healthcare you may be given credit in the selection process. In the score chart for admission, you must choose ONE of the options detailed in this section.
   - Your previous or current employer is required to complete and return the volunteer/work experience verification form directly to the program. Please provide them with a stamped envelope for return.
   - If you intend to hand deliver this form to either LSC-Montgomery or LSC-CyFair, your previous or current employer must sign across the seal of the envelope to ensure authenticity.

11. ALL APPLICANTS must take the PSB Health Occupations Aptitude Test. Check exam ticket for testing dates and instructions. Further PSB exam information is available at: http://www.psbtests.com/site/products/hoae.html

The Application Process
1. The application can be accessed at: http://twebapp1.lonestar.edu/nash/default.aspx during the application period.

2. The score report will have the points earned for each of the different admission criteria required by the Medical Radiologic Technology program.

3. Be sure to print and sign both your application and score report. If there are any errors in the score report, it is your responsibility to address those concerns with the program prior to submission of your application. Your score report will not be complete until you have taken the PSB and your scores have been entered by the program.

4. In order to complete your application file, the following materials MUST be submitted to the preferred campus Rad Tech office before the end of the application period:
   a. Printed and signed application (from the online process)
   b. Printed and signed score report (from the online process)
   c. Copy of program evaluation declaring a major in Medical Radiological Technology.
   d. Other documentation requested in application, if you are receiving points for any of these things (i.e. verification of volunteer/work experience, verification of completion of HPRS 1001 &/or current copy of licensure/certificate).

The Selection and Final Acceptance
1. The applicants will be ranked according to the criteria on the score sheet.

2. Students will be selected based on the highest cumulative scores based on the admission criteria.

3. Beginning in 2012, the top 30 candidates will go through a final selection process that includes a written assignment and a panel interview.

4. Final acceptance into the program is contingent upon a satisfactory background check (as required by hospitals) that is completed by a college approved agency at the student’s expense. Clinical facilities may also require medical insurance and completion of satisfactory drug screening.
5. Students accepted into the program are also required to submit proof of required immunizations, TB test, and proof of current CPR certification (2 year healthcare provider type). All expenses related to these items are the responsibility of each student.

Applying for Readmission or Transfer

A former student of any radiology program seeking admission to the MRT program will be considered upon submission of the following documents to the readmission committee at least two months in advance of the semester for which admission is being sought:

1. A completed petition for Readmission/Transfer.
2. A signed personal statement from the student describing their reasons for originally leaving the program. This statement should include a description of the ways in which they have, or plan to, resolve the situations which caused them to leave the program previously.
3. Current official college transcripts from any other colleges, universities, or proprietary schools the student has attended both before entering the program and since leaving the program.
4. A minimum of three recommendations mailed to the program under separate cover. One letter should be a “report of status” from the former program director.
5. Additionally, readmission is based upon:
   - Space available in the program.
   - Satisfaction of current college and program admission requirements.
   - Fulfilling the graduation requirements that are in effect at the time of readmission.

Any student who was required to exit the program for academic reasons may only be granted one (1) readmission at the discretion of the readmission committee. Students gaining readmission to the program must repeat any academically deficient course(s) and may be required to audit other program course(s) offered in the same semester. Students who have been out of the program for one (1) or more years will be required to audit or retake all previously completed RADR courses and pass the final examinations for those courses with a grade of “C” or better.
DEGREES AND CERTIFICATES

2. Access the MRI program application located on the department web site.
3. Complete, print and sign your application.
4. Submit the following materials to the LSC-CyFair campus Radiologic Technology office before the end of the application period. The application packet must include:
   a. Printed and signed application.
   b. Provide a copy of qualifying certification (ARRT, RDMS, NMTCB or RN) credentials.
   c. Provide a copy of state license to practice as applicable. In states that do not have MRT licensure, ARRT certification is sufficient.
   d. Provide two professional letters of reference. One should be from a former Program Director, Clinical Coordinator or college educator and one from a current or former employment supervisor.
   e. Understand that final acceptance into the program is contingent upon a satisfactory background check (as required by hospitals) that is completed by a college approved agency at the student’s expense. Clinical facilities may also require completion of satisfactory drug screening. Clinical facilities may also require proof of medical insurance.
   f. Complete the American Heart Association Basic Life Support Provider of Care and provide a valid certification card.

Applicants will be admitted on a first come, first served basis after all materials listed above have been received. The total number of students admitted may be limited due to available clinical sites. In addition to the tuition and textbooks for the MRI courses, there are additional fees and expenses. Students are required to purchase uniforms and accessories. Each student accepted into the program is required to purchase student liability insurance (subject to rates applicable at the time of registration) and obtain current immunizations as required by the Texas Department of State Health Services for healthcare providers. Regulations require that students complete the Hepatitis B immunization series that may take between 3-6 months prior to patient contact. Each student is also responsible for his/her own transportation to the clinical areas.

MEDICAL RADIOLOGIC TECHNOLOGY

Associate of applied science degree
(AAS_MRDR degree offered at LSC-CyFair and Montgomery)

The sequence of courses at LSC-Montgomery may vary due to the January start date; however, all courses listed must be completed to fulfill degree requirements.

Prerequisite Credit
BIOL 2404 Intro to Anatomy and Physiology 4

FIRST YEAR Credit
RADR1 1409 Intro to Radiography & Patient Care 4
RADR 1411 Basic Radiographic Procedures 4
RADR 1313 Principles of Radiographic Imaging I 3
KINE Physical Activity 1
MATH 1314 College Algebra 3
RADR 2401 Interm. Radiographic Procedures 4
RADR 1260 Clinical 2
RADR 2305 Principles of Radiographic Imaging II 3
ENGL 1301 Composition & Rhetoric I 3
RADR1 1360 Clinical 3
RADR 2331 Advanced Radiographic Procedures 3

SECOND YEAR Credit
RADR2 2271 Computers in the Imaging Sciences 2
RADR 2240 Intro to Sectional Anatomy  2
RADR 2313 Radiation Protection and Biology 3
RADR 1460 Clinical 4
RADR 2309 Radiographic Imaging Equipment 3
RADR1 2360 Clinical 3
PSYC 2301 General Psychology 3
Elective Humanities/Fine Arts 3
RADR 2217 Radiographic Pathology 2
SPCH4 Elective 3
RADR5 2335 Radiologic Technology Seminar 3
RADR1 2460 Clinical 4

TOTAL Credit Hours for Medical Radiologic Technology AAS Degree 72

1 Combination of courses meets multicultural requirement
2 Computer competency
3 Choose from the general education core
4 Choose from SPCH 1311, 1315, 1318, or 1321
5 Capstone course

MAGNETIC RESONANCE IMAGING
ADVANCED TECHNICAL CERTIFICATE

(C4_MRI4 certificate offered at LSC-CyFair)

The Magnetic Resonance Imaging program is a 12-month, three-semester program that provides didactic and clinical instruction to currently certified and licensed medical radiologic technologists while
preparing them to be eligible to apply to take the post-primary certification examination in Magnetic Resonance Imaging administered by the American Registry of Radiologic Technologists (ARRT).

FIRST YEAR Credit

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<tr>
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<th>Course Name</th>
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<tr>
<td>MRIT 2330</td>
<td>Principles of Magnetic Resonance Imaging</td>
<td>3</td>
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<tr>
<td>MRIT 2360</td>
<td>Clinical Magnetic Resonance Tech</td>
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<tr>
<td>MRIT 2355</td>
<td>Magnetic Resonance Imaging Physics</td>
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</tr>
<tr>
<td>MRIT 2334</td>
<td>Magnetic Resonance Equipment and Methodology</td>
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</tr>
<tr>
<td>MRIT 2361</td>
<td>Clinical Magnetic Resonance Tech</td>
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</tr>
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</table>

TOTAL Credit Hours for Magnetic Resonance Imaging ATC 18

NURSING

The Lone Star College System offers a variety of nursing programs and curricula at its college campuses. Additional information about the nursing program may be found at the nursing website: LoneStar.edu/nursing-requirements.

The Associate Degree Nursing (ADN) integrated program of study is offered by LSC-Kingwood, Montgomery, North Harris, and Tomball. With an integrated nursing curriculum, classroom, laboratory, and clinical content are organized around a series of concepts that progress from simple to complex. The Associate Degree Nursing (ADN) block program is offered by LSC-CyFair. In a block nursing curriculum, learning experiences are divided by content area such as care of children and families and adult health. Additionally, LSC-Kingwood offers the Second Degree Program which is an online nursing program to meet the diverse needs of students. This program is designed for students with a prior college degree who need flexible schedules and are able to complete the curriculum in a more self-directed manner. There are three aspects to the online program: didactic, lab skills, and clinical coursework. The didactic or classroom portion of the coursework is online with the student being able to complete modules and exams at an individual pace. The lab skills courses include an online component plus scheduled practice times on campus. The clinical courses are scheduled with a nurse preceptor in a LSCS service area clinical facility, based on the nurse’s and student’s schedules. Students will need to participate in a one week orientation on campus during the first week of the program. All of these programs and curricula are designed for individuals interested in becoming a registered nurse (RN). All ADN programs in the LSCS are accredited by the National League for Nursing Accrediting Commission (NLNAC).

The Vocational Nursing Certificate program is offered at LSC-CyFair, Kingwood, Montgomery and Tomball. Graduates are prepared to provide nursing care for clients with predictable outcomes in a variety of health care settings. These programs are designed for individuals interested in becoming a licensed vocational nurse.

The Transition to Professional Nursing (RN) program is offered at LSC-Kingwood, Montgomery, North Harris, and Tomball. Graduates of a vocational nursing or paramedic program who become licensed as a LVN or paramedic and complete the required prerequisite courses may be eligible to apply for the transition program. LSC-Kingwood also offers an online transition program for LVNs and paramedics that is traditionally completed within one year. Students are allowed to complete this award in a shorter period of time. Students are also required to participate in a four day orientation on campus during the first week of the program.

General Guidelines

Admission requirements, selection criteria and the application process for the nursing programs are presented in regularly scheduled information sessions on each LSC campus or online for LSC-Tomball. Upon acceptance into any LSCS nursing program, students must submit an official record of current immunizations or titers (including a complete Hepatitis B Series as required by the Texas Department of State Health Services), report of a satisfactory physical examination documented on a college-approved form, and a clear criminal background check completed through the Texas Board of Nursing (BON). Names of entering students and student identification will be submitted to the Texas BON for the purpose of scheduling and processing extensive FBI background screenings. In cases where the applicant has a questionable background check, mental illness and/or chemical dependency, the Texas BON will consider eligibility on an individual basis by requiring the applicant to complete a declaratory order. The declaratory
DEGREES AND CERTIFICATES

order process may take six (6) months to two (2) years to complete. Prospective applicants who question their eligibility are encouraged to discuss their situation with the Texas BON, at www.bon.state.tx.us or 512.305.7400, prior to application to any LSCS nursing program. If a student is convicted of a felony or misdemeanor while enrolled in a LSCS nursing program, the student must inform the nursing director in writing and submit a declaratory order to the Texas BON. Criminal background checks are required by all clinical facilities.

Drug screens and verification of medical insurance may be required at some clinical sites during the student’s enrollment in a LSCS nursing program.

All accepted students into ADN & LVN programs must provide proof of English proficiency if they completed high school outside the USA. Proof of English proficiency can be achieved through either taking a proficiency exam or providing documentation of high school graduation from an English speaking country. Please see nursing Web page for more details.

An admission appeal will be considered if there is evidence that one or more of the following conditions exist: (1) error in calculation of points for admission; (2) deviation from admission procedures as defined by the program Web site; or (3) disparate treatment of a student that is not addressed by EEO processes. Review the nursing Web site for further details.

Students applying to the LSCS nursing programs must adhere to the Code of Conduct and other policies found in the system and nursing student handbooks, which can be found on the college Web site. Upon completion of the ADN degree requirements, nursing graduates may apply to take the licensure exam to become a registered nurse (RN). Completion of the nursing program, however, does not guarantee eligibility to take the state licensure exam. Eligibility to take the National Council Licensure Exam for Registered Nurses (NCLEX-RN) is determined solely by the Texas BON.

Costs incurred while in the nursing program include tuition and fees for the nursing courses as well as additional expenses for textbooks, uniforms, immunizations, testing fees, clinical/lab equipment and licensure fees. Nursing students are also responsible for the costs of their physical examinations, CPR certifications, background checks, drug screens (if required), health care insurance, and transportation to and from clinical agencies for day and evening learning experiences.

Progression Requirements
To remain in good standing and progress within the nursing curriculum, students must:

1. Maintain a cumulative grade point average of 2.0, and
2. Attain a grade of “C” or better in each nursing and general education course designated in the VN certificate or ADN degree plan, and
3. Successfully complete all concurrent nursing courses to advance to the next level.

Testing Requirements
Students applying to the nursing programs are required to complete a national, standardized nursing pre-entrance test and meet the minimum score requirement on all components of the test. The cost of the exam is the responsibility of the student. Refer to the nursing Web site for more information. Students enrolled in the nursing program are required to take nationally-normed tests throughout the curriculum and to make satisfactory scores on each test. All costs for the exams and remediation are the student’s responsibility. Additionally, in the last semester of the curriculum, students must achieve a satisfactory exit exam score in order to graduate from the program. Accepted students and alternates to the LSCS nursing program who completed high school outside the United States of America must provide proof of English language proficiency with TOEFL scores. Review the nursing Web page at LoneStar.edu/nursing-dept for further details.

Students with Disabilities
LSCS complies with the requirements of the Americans with Disabilities Act (ADA). Students with documented disabilities will be given accommodations in accordance with the LSCS policy and those allowed by the National Council of State Boards of Nursing.

Biology & Pharmacology Course Requirements
Biology courses submitted for program credit must be completed no more than five (5) years prior to application to the nursing program. Refresher anatomy & physiology and microbiology courses are available through continuing education for students whose biology is older than five years and
who do not desire to repeat the courses for credit. The grades earned from the older credit biology courses will be used for grade point calculation where applicable. If a Pharmacology course (RNSG 1301) is submitted for program credit, it must have been completed no more than five (5) years prior to application for the nursing program. The grades earned from the older credit will be used for grade point calculation, when applicable.

**Tech Prep/Dual Credit Courses**

Students who have completed high school health science technology courses within the past 36 months may be eligible for articulated credit in the nursing programs. Dual credit opportunities exist for other courses in the nursing degree plans. Please refer to the college catalog, Web site, or counseling office for further information.

**Readmission Guidelines**

Applicants who have failed or withdrawn from any LSCS nursing program will be considered on an individual basis. Readmission is not automatic. It is based on remediation of an identified problem area and space availability. Students who request readmission to a program might be invited to interview with the program’s Readmission Committee. At this interview, the student will be asked to describe what steps have been taken in the intervening months to improve the chance of success and an action plan for improvement of academic and/or clinical performance. In addition, students seeking readmission must submit a letter of their standing from the prior nursing program director. Readmission into the associate degree nursing program must occur within two years of non-completion. Readmission into the vocational nursing program must occur within one year. Upon readmission, students who previously failed or withdrew from a nursing course must repeat all concurrent/corequisite nursing courses. A student may be readmitted into the nursing program one time only.

The readmission policy does not apply to first semester nursing students. Students who are unsuccessful in the first semester basic track or LVN program will have to reapply to the program. Articulating (transition) students who are unsuccessful in transition courses (RNSG 1417 or 1206) must reapply to the Basic track nursing program. Likewise, transfer students will not be admitted into the first semester of any nursing program.

**Reapplication Guidelines**

Any nursing student, who is not eligible for readmission, can re-apply to any of the nursing programs within the college system with the understanding that all nursing courses must be re-taken if accepted to a program. The student must also meet all current nursing application requirements. The applicants will also be required to submit a letter of their standing from the prior nursing program director if they were in a nursing program within the past 5 years.

**Transfer Guidelines**

An individual’s request to transfer into any LSCS nursing program will be reviewed on an individual basis by the program director and Transfer/Readmissions Committee. Class placement is based on previous achievement and space availability. Admission is considered only if prior program enrollment has been within one (1) year.

1. Transfer requests for those who have completed nursing coursework (within two semesters of inquiry) at other colleges are evaluated individually and acceptances are based on program space availability.
2. Students who have had two (2) unsuccessful attempts in any nursing program are not eligible for transfer into the nursing programs at LSCS.
3. Transfer applicants will be required to submit a letter of their standing from the prior nursing program director.
4. See college Web sites for additional information regarding the nursing program transfer guidelines.

**NURSING – Associate of Applied Science Degree, Tech Prep**

There are three (3) programs of study offered in associate degree nursing: the basic track (integrated and block programs), the transition track for articulating students, and the second-degree track. The associate degree nursing programs of the Lone Star College System are accredited by the National League for Nursing Accrediting Commission (NLNAC). Accreditation information is available through NLNAC, 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326, phone 404.975.5000, www.nlnac.org, and approval information is available from the Texas Board of Nursing, 333 Guadalupe #3-460, Austin, TX 78701, telephone 512.305.7400.
Admission Criteria – Basic Track
In addition to the admission requirements of the system and the general requirements listed above, the following are requirements for admission into the associate degree nursing program. The application process is highly competitive, with students being accepted into the programs based on scores determined by: grade point averages; total number of prerequisite and general education courses taken; and the scores from the national, standardized nursing pre-entrance test. Refer to the nursing website for a sample score sheet. The applicant must:

1. Complete college-level reading, writing, and math prerequisites or LSCS Student Success Initiative (SSI) requirements. All associate degrees require completion of MATH 0308 or higher. To determine your SSI status, see a college advisor. Beginning Fall 2012, all applicants must have completed MATH 0310 with a minimum grade of “C” or achieve placement into a college level math through an assessment test (THEA, Compass, ASSET, or equivalent) or complete a college level math course with a grade of “C” or higher.

2. Complete the following prerequisite courses with a minimum grade point average of 2.5 or higher: BIOL 2401, ENGL 1301, and PSYC 2301. (BIOL 2401 is required to meet the admission criteria; however, the highest grade in BIOL 2401 or 2402 will be used for calculation of GPA for application purposes).

3. In addition to completing the prerequisite courses, complete the following courses with a minimum grade point average of 2.5 or higher to be competitive in the application process: BIOL 2402; BIOL 2420; PSYC 2314; SOCI 1301; SPCH 1311 or SPCH 1318; a Humanities course; a KINE activity course. Check catalog AAS Requirements to see eligible Humanities courses.

4. Biology courses submitted for program credit must be completed no more than five (5) years prior to application to the nursing program.

5. Obtain a grade of a “C” or higher in all courses required in the associate degree nursing (ADN) degree plan. GPA in all courses in the ADN degree plan must be 2.5 or greater at time of application.

6. Complete a national, standardized nursing pre-entrance test and meet the minimum score requirement. The cost of this test is the responsibility of the applicant. All applicants must take the nursing pre-entrance test. The entrance test may only be taken one (1) time each admission period.

7. Submit official transcripts from colleges attended other than LSCS.

8. Submit a completed application to the preferred college’s nursing program. Application deadlines are posted on the colleges’ Web sites. Separate applications to the college nursing programs are only required if the submission deadline dates differ.

9. Complete the Hepatitis B immunization series. Applicants must provide official documentation of all immunizations or titers received and a satisfactory physical exam on a college-approved form. Go to http://LoneStar.edu/immunizations.htm for the form.

10. Complete the American Heart Association Basic Life Support for Health Care Providers Certification.

11. Final acceptance into the program is contingent upon a satisfactory FBI background check (completed through the BON). Clinical facilities may also require verification of medical insurance and drug testing.

Admission Criteria – Second Degree Program (LSC-Kingwood only)
In addition to the admission requirements for the system and the general requirements listed above, the following are admission requirements for the second-degree program students:

1. Prerequisite courses and admission requirements are the same as for the basic track program.

2. Have experience with online courses and have the ability to function independently. Students who have no online course experience or have been unsuccessful in a traditional nursing program will not be eligible for the online program. International students have limitations on taking online courses and may be ineligible depending on immigration status.

3. Must be currently employed in a healthcare facility.
4. Submit official transcripts from colleges attended other than LSCS.
5. Submit a completed application to the preferred college’s nursing program. Application deadlines are posted on the colleges’ Web sites. Separate applications to the college nursing programs are only required if the deadline submission dates differ.
6. Complete the Hepatitis B immunization series. Applicants must provide written documentation of all immunizations or titers received and a satisfactory physical exam on a college-approved form found. Go to the nursing Web site for the form.
7. Complete the American Heart Association Basic Life Support for Healthcare Providers Certification.
8. Participate in a one week orientation on campus during the first week of the program.
9. Final acceptance into the program is contingent upon a satisfactory FBI background check (completed through the Texas BON). Clinical facilities may also require verification of medical insurance and drug testing.

Admission Criteria – Transition to Professional Nursing for Articulating Students
In addition to the admission requirements for the system and the general requirements listed above, the following are admission requirements for the transition track for articulating students. The application process is highly competitive, with students being accepted into the programs based on scores determined by: grade point averages; total number of prerequisite and general education courses taken; and the scores from the national, standardized nursing pre-entrance test. Refer to nursing website for a sample score sheet.

1. Complete college-level reading, writing, and math pre-requisites or LSCS Student Success Initiative (SSI) requirements. All associate degrees require completion of MATH 0308 or higher. To determine your SSI status, see a college advisor. **Beginning fall 2012, all applicants must have completed MATH 0310 with a minimum grade of “C” or achieve placement into a college level math course through an assessment test (THEA, Compass, ASSET, or equivalent)** or complete a college level math course with a grade of “C” or higher.
2. Complete the following courses with a minimum cumulative grade point average of 2.5 or higher: BIOL 2401, BIOL 2402, ENGL 1301, PSYC 2301, PSYC 2314, and RNSG 1301.
3. Complete the following courses with a minimum grade point average of 2.5 or higher to be competitive in the application process: BIOL 2420; SOCI 1301; SPCH 1311 or SPCH 1318; a Humanities course; a KINE activity course. Check catalog AAS Requirements to see eligible Humanities courses.
4. Biology courses submitted for program credit must be completed no more than five (5) years prior to application to the nursing program.
5. Obtain a grade of “C” or higher in all courses required in the associate degree nursing degree plan. GPA in all courses in the ADN degree plan must be 2.5 or greater at the time of application.
6. Possess current Texas license as a Licensed Vocational Nurse, current National Registry EMT Paramedic Certification, current Texas Department of Health EMT Paramedic Certification, OR current Texas Department of Health Paramedic License.
7. Complete a national, standardized nursing pre-entrance test and meet the minimum score requirement. The cost of this test is the responsibility of the applicant. All applicants must take the nursing pre-entrance test. The entrance test may only be taken one (1) time each admission period.
8. Submit official transcripts from colleges attended other than LSCS.
9. Submit a completed application to the preferred college’s nursing program. Application deadlines are posted on the colleges’ Web sites. Separate applications to the college nursing programs are only required if the submission deadline dates differ.
10. Complete the Hepatitis B immunization series. Applicants must provide written documentation of all immunizations or titers received and a satisfactory physical exam on a college-approved form found. Go to the nursing website for the form.
11. Complete the American Heart Association Basic Life Support for Healthcare Providers Certification.

12. Final acceptance into the program is contingent upon a satisfactory FBI background check (completed through the Texas BON). Clinical facilities may also require verification of medical insurance and drug testing.

**VOCATIONAL NURSING CERTIFICATE**

The vocational nursing program is a three-semester, one year, full-time 47-credit hour certificate program. The program is approved by the Texas Board of Nursing. Upon completion of the vocational nursing certificate, nursing graduates may apply to take the licensure exam to become a Licensed Vocational Nurse (LVN). Eligibility to take the National Council Licensure Examination for Practical Nurses (NCLEX-PN) is determined solely by the Texas Board of Nursing.

**Admission Criteria – Vocational Nursing**

In addition to the system admission requirements, the following are required for the vocational nursing program. The application process is highly competitive, with students being accepted into the programs based on scores determined by: grade point averages; and the scores from the national, standardized nursing pre-entrance test. Refer to the website for a sample score sheet.

1. Complete college-level reading, writing, and math pre-requisites or LSCS Student Success Initiative (SSI) requirements. All VN programs require completion of MATH 0308 or higher. To determine your SSI status, see a college advisor.

2. Complete BIOL 2404 with a grade of “C” or higher (Completion of BIOL 2401 & 2402 is accepted in place of BIOL 2404, and is recommended for those students planning to transition into the ADN program). Biology courses submitted for program credit must be completed no more than five (5) years prior to application to the nursing program.

3. Maintain a cumulative grade point average of 2.0 in college level courses.

4. Complete a standardized nursing pre-entrance test. The cost of this test is the responsibility of the applicant. All applicants must take the nursing pre-entrance test. The entrance test may only be taken one (1) time each admission period.

5. Submit official transcripts from colleges attended other than LSCS.

6. Submit a completed application to the preferred college’s nursing program. Application deadlines are posted on the nursing Web site. Separate applications to the college nursing programs are only required if the submission deadline submission date differ.

7. Complete Hepatitis B immunization series. Applicants must provide written documentation of all immunizations received and a satisfactory physical exam on a college-approved form. Go to the nursing Web site for the form.

8. Complete the American Heart Association Basic Life Support for Healthcare Providers Certification.

9. Final acceptance into the program is contingent upon a satisfactory FBI background check (completed through the Texas BON). Clinical facilities may also require verification of medical insurance and drug testing.

**VOCATIONAL NURSING CERTIFICATE**

(C2_PRN2 certificate offered at LSC-CyFair, Kingwood, Montgomery and Tomball)

This program is a 3 semester, one year full-time program that prepares students interested in becoming a licensed vocational nurse (LVN). The program teaches students to provide nursing care in a variety of health care settings.

**Prerequisite Credit**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
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<td>BIOL 2404</td>
<td>Introduction to A&amp;P</td>
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**FIRST YEAR Credit**

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<td>VNSG 1160</td>
<td>Clinical Basics</td>
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<tr>
<td>VNSG 1260</td>
<td>Clinical I</td>
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</tr>
<tr>
<td>VNSG 2,3</td>
<td>1116 Nutrition</td>
<td>1</td>
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<tr>
<td>VNSG 1323</td>
<td>Basic Nursing Skills</td>
<td>3</td>
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<tr>
<td>VNSG 1304</td>
<td>Foundations</td>
<td>3</td>
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<td>VNSG 1400</td>
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<td>1238 Mental Illness</td>
<td>2</td>
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<td>VNSG 1163</td>
<td>Pediatric Clinical</td>
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<td>VNSG 1231</td>
<td>Pharmacology</td>
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<td>VNSG 1262</td>
<td>Clinical II</td>
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<td>VNSG 1307</td>
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<td>VNSG 1409</td>
<td>Nursing in Health &amp; Illness II</td>
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<td>VNSG 1219</td>
<td>Professional Development</td>
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<tr>
<td>VNSG 2,3</td>
<td>1226 Gerontology</td>
<td>2</td>
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<tr>
<td>VNSG 1306</td>
<td>Maternity/Newborn Nursing</td>
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</tbody>
</table>
VNSG 1410 Nursing In Health & Illness III 4
VNSG 2161 Maternity/Newborn Clinical 1
VNSG+ 2361 Clinical III 3

TOTAL Credit Hours for Vocational Nursing Certificate 47

1 BIOL 2401 & 2402 Anatomy & Physiology I & II can be substituted for BIOL 2404, if student has taken them.
2 BIOL 1322 Nutrition can be substituted for VNSG 1116 Nutrition, if student has taken it already.
3 Course may be taken during any semester as scheduled by college.
4 Capstone course
   Note: Students must meet math competency (MATH 0308 or higher)

NURSING SPECIALIZATION
(Integrated Curriculum)
Associate of applied science degree, Tech Prep
(AAS_AADN specialization offered at LSC-Kingwood, Montgomery, North Harris and Tomball)

This program is designed for students interested in becoming a registered nurse (RN). The curriculum is organized around a series of concepts organized from simple to complex.

Prerequisite Credit
BIOL 2401 Human Anatomy & Physiology I 4
ENGL 1301 Composition & Rhetoric I 3
PSYC 2301 General Psychology 3

FIRST YEAR Credit
RNSG 1172 Preparation for Basic Care 1
SOCI1 1301 Principles of Sociology 3
BIOL 2402 Human Anatomy & Physiology II 4
RNSG 1301 Pharmacology 3
KINE  Any physical activity course 1
BIOL 2420 Medical Microbiology 4
RNSG2 1119 Integrated Nursing Skills I 1
RNSG2 1361 Clinical - Nursing I 3
RNSG2 1523 Intro to Professional Nursing 5
RNSG 1129 Integrated Nursing Skills II 1
RNSG2 1362 Clinical - Nursing II 3
RNSG 2504 Care of the Client with Common Health Problems 5
PSYC 2314 Lifespan Growth & Development 3

SECOND YEAR Credit
RNSG 2173 Advanced Nursing Skills 1
RNSG2 2361 Clinical - Nursing III 3
RNSG 2514 Integrated Care of Client with Complex Health Care Needs 5
SPCH 1318 Interpersonal Communication OR 3
SPCH 1311 Introduction to Speech Comm. Elective  Humanities/Fine Arts 3

TOTAL Credit Hours Transition to Professional Nursing AAS 60

RNSG 1207 Nursing Jurisprudence 2
RNSG2 2362 Clinical - Nursing IV 3
RNSG2 2535 Integrated Client Care Management 5

TOTAL Credit Hours for Nursing Specialization 72

1 Meets multicultural requirement
2 Meets computer competency
3 Capstone course
   Note: Students must meet math competency (MATH 0308 or higher)

TRANSITION TO PROFESSIONAL NURSING FOR ARTICULATING STUDENTS
(Integrated Curriculum)
Associate of applied science degree
(AAS_PRNR specialization offered at LSC-Kingwood, Montgomery, North Harris and Tomball)

This program is designed for graduates of a LVN or paramedic program to become a registered nurse (RN).

Prerequisite Credit
BIOL 2401 Human Anatomy & Physiology I 4
ENGL 1301 Composition & Rhetoric I 3
PSYC 2301 General Psychology 3

FIRST YEAR Credit
KINE  Any physical activity course 1
RNSG 1301 Pharmacology 3
SOCI1 1301 Principles of Sociology 3
BIOL 2402 Human Anatomy & Physiology II 4
BIOL 2420 Medical Microbiology 4
SPCH 1318 Interpersonal Communication OR 3
SPCH 1311 Introduction to Speech Communication 3
PSYC 2314 Lifespan Growth & Development 3
RNSG 1260 Clinical 2
RNSG 1417 Concepts of Nursing Practice I 4
   for Articulating Students

SECOND YEAR Credit
RNSG 2173 Advanced Nursing Skills 1
RNSG 2361 Clinical - Nursing III 3
RNSG 2514 Integrated Care of the Client with Complex Health Care Needs 5
Elective  Humanities/Fine Arts 3
RNSG 1207 Nursing Jurisprudence 2
RNSG2 2362 Clinical - Nursing IV 3
RNSG3 2535 Integrated Client Care Management 5
RNSG 2171 Role Transition for Articulating Students 1

TOTAL Credit Hours Transition to Professional Nursing AAS 60
DEGREES AND CERTIFICATES

1 Meets multicultural requirement
2 Capstone course
3 Meets computer competency
   Note: Students must meet math competency (MATH 0308 or higher)

VOCACTORIAL NURSING ADN TO VN CERTIFICATE
(C2_AVN2 certificate offered at LSC-North Harris)
Must be enrolled in ADN Program. This program offers the opportunity for ADN students who completed their first year of the ADN program to be eligible to obtain a vocational nurse license through the MEEP (Multiple Entry Exit Portals) program.

<table>
<thead>
<tr>
<th>Prerequisite Credit</th>
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<tbody>
<tr>
<td>BIOL 2401 Human Anatomy &amp; Physiology I</td>
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<tr>
<td>ENGL 1301 Composition &amp; Rhetoric I</td>
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<tr>
<td>PSYC 2301 General Psychology</td>
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</table>

FIRST YEAR Credit

| SOCI 1 1301 Principles of Sociology | 3 |
| KINE Any physical activity course | 1 |
| BIOL 2402 Human Anatomy & Physiology II | 4 |
| RNSG 1301 Pharmacology      | 3 |
| RNSG 1172 Preparation for Basic Care | 1 |
| RNSG 1119 Integrated Nursing Skills I | 1 |
| BIOL 2420 Medical Microbiology | 4 |
| RNSG 1361 Clinical - Nursing I | 3 |
| RNSG 1523 Intro to Professional Nursing | 5 |
| PSYC 2314 Life Span Growth & Development | 3 |
| RNSG 1129 Integrated Nursing Skills II | 1 |
| RNSG 1362 Clinical Nursing II | 3 |
| RNSG 2504 Integrated Care of the Client with Common Health Care Needs | 5 |

SECOND YEAR Credit

| VNSG 1122 Vocational Nursing Concepts | 1 |
| VNSG 2362 Clinical - Practical Nurse I | 3 |
| VNSG 2363 Clinical - Practical Nurse II | 3 |

TOTAL Credit Hours for Vocational Nursing ADN to VN Certificate 54

1 Meets multicultural requirement
2 Capstone course

NURSING SPECIALIZATION
(Block Curriculum)
Associate of applied science degree
(AAS_ADNB degree offered at LSC-CyFair)
This program is designed for students interested in becoming a registered nurse (RN). The curriculum is organized where the learning experience is divided by nursing content area.

FIRST YEAR Credit

| BIOL 2401 Human Anatomy & Physiology I | 4 |
| PSYC 2301 General Psychology      | 3 |
| ENGL 1301 Composition & Rhetoric I | 3 |

SECOND YEAR Credit

| RNSG 1343 Complex Concepts of Adult Health | 3 |
| RNSG 1362 Clinical: Nursing - RN Training | 3 |
| RNSG 1301 Pharmacology      | 3 |
| PSYC 2314 Lifespan Growth & Development | 3 |
| SPCH 1318 Interpersonal Communication OR | 3 |
| SPCH 1311 Introduction to Speech Comm. | 3 |
| RNSG 2213 Mental Health Nursing | 2 |
| RNSG 2162 Clinical: Nursing - RN Training | 1 |
| RNSG 2201 Care of Children and Families | 2 |
| RNSG 2260 Clinical: Care of Children & Families | 2 |
| RNSG 2208 Maternal/Newborn Nursing and Women’s Health | 2 |
| RNSG 2261 Clinical: Nursing - RN Training | 2 |
| Elective 4 Humanities/Fine Arts | 3 |
| KINE Any physical activity course | 1 |
| RNSG 2207 Transition to Nursing Practice | 2 |
RNSG 2231 Advanced Concepts of Adult Health 2
RNSG 2660 Clinical: Nursing - RN Training 6

TOTAL Credit Hours for Nursing Specialization Block Curriculum 72

1 Meets computer competency
2 Meets multicultural requirement
3 Can be taken during 1st year, 3rd semester or 2nd year, 1st semester, depending on spring or fall enrollment.
   Note: Students must meet math competency (MATH 0308 or higher)
4 See AAS core requirements for options
5 Capstone course

OCCUPATIONAL THERAPY ASSISTANT

Occupational therapy assistants, under the direction of a licensed occupational therapist, assist individuals with disabling conditions to achieve independence through the use of purposeful activity. The curriculum for the occupational therapy assistant program covers a period of two years and is designed to lead toward an associate of applied science degree. Students will engage in coursework for a period of four semesters followed by a fifth semester of full-time fieldwork at health care facilities in the community. The educational experience will include classroom instruction, laboratory activities and clinical work. Many clinical facilities will require students to successfully pass a background check. Students will be trained to work with all age groups in a variety of health care settings.

The LSC-Kingwood and Tomball occupational therapy assistant programs are accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA) located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220, 301.652.AOTA.

Graduates will be eligible for the national certification examination administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this examination, the graduate will be a Certified Occupational Therapy Assistant (COTA). Most states, including Texas, require licensure to practice. Texas licensure is based on successful completion of the NBCOT examination. A felony conviction may affect a graduate’s ability to sit for the NBCOT examination or attain a state licensure.

The general education core will transfer to a variety of colleges and universities. Contact a counselor or faculty member at any of the colleges for specific information. To obtain the recommended sequencing of courses, contact either program director at LSC-Kingwood or Tomball.

Admission Criteria
Applicants must meet the college’s general admission criteria as well as program admission criteria and submit all documentation to the Occupational Therapy Assistant office at LSC-Kingwood or Tomball.

Program Admission Criteria
Apply for admission to the occupational therapy assistant department by submitting a formal application and all required official documents to the department.

- Top ranking candidates will be scheduled for a personal interview, a writing sample and completion of a health care admissions examination (paid for by applicant).
- Final acceptance into the program is contingent upon a satisfactory background check (as required by hospitals), which will be completed by an approved agency at the applicant’s expense. If an applicant is convicted of a felony or misdemeanor they must contact NBCOT and ECPTOTE to determine certification and licensure eligibility. If a student is convicted of a felony or misdemeanor while enrolled in an LSCS occupational therapy program, the student must inform the director in writing and submit a current background check. Clinical facilities may also require completion of satisfactory drug screening.
- Applicants will be notified by mail of their admission status.

Minimum Academic Requirements
1. Submit Compass scores or other LSC approved test scores showing placement into ENGL 1301 and MATH 0310. English and math placement may also be satisfied by successful completion of ENGL 0305 or ENGL 0365, ENGL 0307 or ENGL 0375 and MATH 0308.
DEGREES AND CERTIFICATES

2. Completion of a minimum of ten hours of general education course credit with a minimum 2.5 GPA to include ENGL 1301, BIOL 2401 and 3 hours of a general education course required in the degree plan. The general education course required for Kingwood is PSYC 2301.

Upon admission to the program, students must have:
- Physical examination completed by a licensed physician;
- Verification of updated immunization record; regulations require that prior to patient contact, the student must have completed the Hepatitis B immunization series which is received over a 3 - 6 month period; and,
- Certificate of completion of CPR prior to Level I Fieldwork.

Incomplete applications will not receive a department review. Each applicant is responsible for contacting the OTA department to confirm that their application is complete. Applicants to the program will be ranked according to their level of achievement of the program admission criteria and will be accepted into the program on a competitive basis. Students must complete Level II fieldwork assignments within 18 months following completion of academic preparation. Additional information can be obtained from the occupational therapy assistant department at LSC-Kingwood and Tomball.

OCCUPATIONAL THERAPY ASSISTANT

Associate of applied science degree
(AAS_OCTA degree offered at LSC-Kingwood and Tomball)

Course sequence is for LSC-Tomball. Contact the LSC-Kingwood program director for details on its course sequence.

FIRST YEAR Credit

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<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<td>BIOL 2401</td>
<td>Human Anatomy &amp; Physiology I</td>
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</tr>
<tr>
<td>ENGL 1301</td>
<td>Composition and Rhetoric I</td>
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<tr>
<td>OTHA 1301</td>
<td>Intro to Occupational Therapy</td>
<td>3</td>
</tr>
<tr>
<td>OTHA 1315</td>
<td>Therapeutic Use of Occupations or Activities I</td>
<td>3</td>
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<tr>
<td>PSYC 2301</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2402</td>
<td>Human Anatomy &amp; Physiology II</td>
<td>4</td>
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<td>OTHA 1309</td>
<td>Human Structure &amp; Function in OT</td>
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<td>OTHA 2301</td>
<td>Pathophysiology in OT</td>
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<td>OTHA 2331</td>
<td>Physical Function in OT</td>
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SECOND YEAR Credit

Elective

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<tr>
<td>OTHA 1341</td>
<td>Humanities/Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>OTHA 1353</td>
<td>Occupational Performance from Birth Through Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>OTHA 2166</td>
<td>Practicum</td>
<td>1</td>
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<tr>
<td>OTHA 2335</td>
<td>Management in Occup. Therapy</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 1318</td>
<td>Interpersonal Communications</td>
<td>3</td>
</tr>
<tr>
<td>OTHA 2460</td>
<td>Clinical</td>
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</tr>
<tr>
<td>OTHA 2461</td>
<td>Clinical</td>
<td>4</td>
</tr>
</tbody>
</table>

TOTAL Credit Hours for AAS Degree 65

1 Combination of these courses meets multicultural requirement; OTHA 1301 meets wellness competency

2 Meets computer competency

3 See AAS core requirements for options

4 Capstone course

Note: Students must meet math competency (MATH 0308 or higher)

PARALEGAL STUDIES

Degrees and certificates in paralegal studies are available for students wishing to pursue a professional career as a paralegal/legal assistant. The goal of the program is to prepare students to perform effectively in a variety of legal settings and to adapt readily to changes in the legal environment. The program offers a two-year associate of applied science degree and a one-year certificate in paralegal studies. Only students already possessing either an associate’s degree or a bachelor’s degree may enter the certificate program.

Exciting and fulfilling careers can be found in both the public and private sectors of legal practice for graduates holding paralegal degrees and certificates. Paralegals are trained to assist attorneys in such legal services as drafting legal documents, conducting legal research and factual investigations, and interviewing clients and witnesses. Paralegals must work under the direct supervision of a lawyer. The program offers a faculty of experienced paralegal professionals and attorneys, and an extensive law library with Westlaw Computer Assisted Legal Research available on campus. Lexis/Nexis computer research is also available online with computer access to the library Web site.
For students enrolled full-time the AAS degree may be earned in two years, and the certificate in one year. For those attending on a part-time basis, time for completion will be longer. The general education core will transfer to a variety of colleges and universities. Transferred legal specialty courses will be approved as course substitutions as appropriate by the program director only. All students must take at least 12 semester credits of legal specialty courses in the traditional classroom setting. Contact a counselor or paralegal studies faculty member at LSC-North Harris for more information. Go to the Web at LoneStar.edu/paralegal for more information.

PARALEGAL STUDIES

ADVANCED TECHNICAL CERTIFICATE
(C4.PLG4 certificate offered at LSC-North Harris)

Admission to this program is limited to students who have already earned an associate or a baccalaureate degree from an accredited college or university. Students without a prior degree who wish to pursue paralegal studies must matriculate under the AAS.

FIRST YEAR Credit

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITSC</td>
<td>1401 Introduction to Computers</td>
<td>4</td>
</tr>
<tr>
<td>LGLA</td>
<td>1219 Legal Ethics &amp; Prof. Responsibility</td>
<td>2</td>
</tr>
<tr>
<td>LGLA</td>
<td>1303 Legal Research</td>
<td>3</td>
</tr>
<tr>
<td>LGLA</td>
<td>1307 Intro to Law &amp; Legal Professions</td>
<td>3</td>
</tr>
<tr>
<td>LGLA</td>
<td>2303 Torts &amp; Personal Injury Law</td>
<td>3</td>
</tr>
<tr>
<td>LGLA</td>
<td>2370 Rules of Civil Procedure</td>
<td>3</td>
</tr>
<tr>
<td>ACNT</td>
<td>1303 Introduction to Accounting</td>
<td>3</td>
</tr>
<tr>
<td>LGLA</td>
<td>1345 Civil Litigation</td>
<td>3</td>
</tr>
<tr>
<td>LGLA</td>
<td>2305 Interviewing &amp; Investigating</td>
<td>3</td>
</tr>
<tr>
<td>LGLA</td>
<td>2331 Adv. Legal Research &amp; Writing</td>
<td>3</td>
</tr>
<tr>
<td>LGLA</td>
<td>2388 Internship Paralegal/Legal Assist.</td>
<td>3</td>
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<tr>
<td>LGLA</td>
<td>1171 Preparing for Legal Employment</td>
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</table>

TOTAL Credit Hours for Paralegal Studies Advanced Technical Certificate: 35-36

1 Capstone course
2 LGLA 1317, 1323, 1341, 1343, 1349, 1353, 1355, 1359, 1371, 2301, 2309, 2311, 2313, 2315

SECOND YEAR Credit

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>KINE</td>
<td>Any physical activity course</td>
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</tr>
<tr>
<td>LGLA</td>
<td>1219 Legal Ethics &amp; Prof. Responsibility</td>
<td>2</td>
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<tr>
<td>LGLA</td>
<td>1345 Civil Litigation</td>
<td>3</td>
</tr>
<tr>
<td>LGLA</td>
<td>2305 Interviewing &amp; Investigating</td>
<td>3</td>
</tr>
<tr>
<td>LGLA</td>
<td>2331 Adv. Legal Research &amp; Writing</td>
<td>3</td>
</tr>
<tr>
<td>LGLA</td>
<td>2388 Internship Paralegal/Legal Asst.</td>
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</tr>
<tr>
<td>LGLA</td>
<td>1171 Preparing for Legal Employment</td>
<td>1</td>
</tr>
</tbody>
</table>

TOTAL Credit Hours for AAS Degree: 62

1 Humanities course requirement must be selected from this list: ENGL 2332, 2333, HUMA 1301, 1302, PHIL 1304, FREN 2311, 2312, GERM 2311, 2312, SPAN 2311, 2312. These courses also meet the multicultural requirement.
2 Select from general education requirements
3 Capstone course
4 LGLA 1317, 1323, 1341, 1343, 1349, 1353, 1355, 1359, 1371, 2301, 2309, 2311, 2313, 2315

PHARMACY TECHNOLOGY

Pharmacy technicians are paraprofessionals who work under the supervision of a licensed pharmacist to assist with activities that do not require the professional judgment of the pharmacist. Pharmacy technicians assist with maintaining records, filling and dispensing routine prescriptions and medication orders, stocking supplies of patient care areas, maintaining inventories of drug supplies, preparing sterile compound products, accepting prescriptions and refill requests, and providing assistance to the
The pharmacy technology certificate program prepares graduates to sit for the National Pharmacy Technician Certification Examination, administered by the Pharmacy Technician Certification Board (PTCB), to become a certified pharmacy technician (CPhT). Pharmacy technicians in the State of Texas are required to be certified by examination within the year allotted. The Texas State Board of Pharmacy (TSBP) also requires certified pharmacy technicians to register with the Board. It further requires that a person performing pharmacy technician duties in a pharmacy must be registered by TSBP as either a pharmacy technician or a pharmacy technician trainee. This includes students while they are doing “clinical” rotations in pharmacies. To register, the pharmacy technology student can find links at www.tsbp.state.tx.us/ to the online registration applications. Pharmacies must ensure that all pharmacy technician trainees complete the online registration process. Included with the registration process is the criminal background information, which requires submission of the applicant’s social security number and high school graduation information. The criminal background history must be clear of any felonies or controlled substance violations prior to enrollment in the pharmacy technology program.

Once an applicant has successfully completed all requirements of registration, and the TSBP has determined there are no grounds to refuse registration, the applicant will be issued a red certificate as a pharmacy technician trainee. This certificate expires two years from the date of issuance.

Admission Criteria for the Certificate Program
Applicants must meet the program admission criteria and submit all documentation to the pharmacy technology office at either LSC-North Harris or Tomball. Contact the program director at the appropriate college to determine eligibility and qualifications for the program prior to completing the application form.

Applicants to the certificate program must:
1. Contact the LSC-North Harris program director at 281.618.5727 or the LSC-Tomball program director at 281.357.3634 to determine eligibility and prerequisite requirements.
2. Provide evidence of college ready status according to the following:
   a. Submit previous college and/or high school transcripts from all colleges/universities attended;
   b. Submit passing scores on the COMPASS, THEA, or ASSET tests as determined by LSCS;
   c. Complete an individualized learning plan that includes MATH 0308; ENGL 0305 or ENGL 0365; ENGL 0306 or ENGL 0374 with a minimum grade of C;
3. Schedule a personal interview with the program director. Applicants will be notified by mail or phone of the admission status. It is strongly recommended that application be made at least a month in advance of the semester for which the student would like to enroll.
4. Receive a high school diploma or GED before applying to the program.
5. Provide a copy of the TSBP-issued certificate to the program director.
6. Complete a drug screen prior to clinical affiliation if required by that facility or pharmacy. Students will be provided further information according to agency and/or college policy.
7. Complete the Hepatitis B immunization series prior to patient contact if required by clinical affiliates.

Upon admission to the program, students must have:
1. Recent verification of physical examination completed by a licensed physician.
2. Verification of an updated immunization record. Agencies may also require recent TB skin test results, MMR immunity, and/or varicella vaccine.

3. Student liability insurance (paid when student registers for the first semester).

4. Long-sleeve, short-length white lab jacket, program patch, and school-approved name tag.

5. Certificate of completion of CPR prior to the first internship assignment. Incomplete applications will not receive a complete departmental review. Each applicant is responsible for contacting the pharmacy technology office to confirm whether the application is complete. Additional information can be obtained from the pharmacy technology office at LSC-North Harris or Tomball.

Admission Criteria for the AAS Degree Program

The associate of applied science degree in pharmacy technology requires an additional year of course work. The purpose of the program is to prepare graduates for managerial positions and customer service in hospital and community/retail pharmacies. An associate degree in pharmacy technology emphasizes the technician's interest in and dedication to the work. Further emphasis is placed on ethics and federal and state laws. The pharmacy courses for the AAS degree are offered at LSC-North Harris.

Applicants seeking admission to the AAS program must contact the program director at 281.618.5727 to determine eligibility and prerequisite requirements. Include official documentation of the Pharmacy Technician Certification Board (PTCB) certificate, Texas State Board of Pharmacy (TSBP) certificate, and completion of the pharmacy technology certificate from an accredited institution. Each candidate will be assessed on an individual basis by the program director to determine his or her eligibility before applying to the AAS program. Those who did not complete a pharmacy technology program but had informal on-the-job training must contact the program director for a PLA (Prior Learning Assessment). A nominal fee is required for an assessment of the student's previous work experience. Prior to graduation from the AAS degree program, students must complete LSCS Student Success Initiative (SSI) requirements.

PHARMACY TECHNOLOGY CERTIFICATE

(C1_PHRT certificate offered at LSC-North Harris
and Tomball)

FIRST YEAR Credit

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>PHRA 1102</td>
<td>Pharmacy Law</td>
<td>1</td>
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<tr>
<td>PHRA 1305</td>
<td>Drug Classification</td>
<td>3</td>
</tr>
<tr>
<td>PHRA 1309</td>
<td>Pharmaceutical Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>PHRA 1361</td>
<td>Clinical - Community Pharmacy</td>
<td>3</td>
</tr>
<tr>
<td>PHRA 1413</td>
<td>Community Pharmacy Practice</td>
<td>4</td>
</tr>
<tr>
<td>PHRA 1143</td>
<td>Pharm Tech Certification Review</td>
<td>1</td>
</tr>
<tr>
<td>PHRA 1304</td>
<td>Pharmacotherapy &amp; Disease Proc.</td>
<td>3</td>
</tr>
<tr>
<td>PHRA 1345</td>
<td>Intravenous Admixture &amp; Sterile Compounding</td>
<td>3</td>
</tr>
<tr>
<td>PHRA 1347</td>
<td>Pharmaceutical Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>PHRA 1449</td>
<td>Institutional Pharmacy Practice</td>
<td>4</td>
</tr>
<tr>
<td>PHRA 2361</td>
<td>Clinical - Institutional Pharmacy</td>
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<tr>
<td>TOTAL</td>
<td>Credit hours for Pharmacy Technology Certificate</td>
<td>31</td>
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</table>

1 Capstone course

Second YEAR Credit

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<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>PHRA 1143</td>
<td>Community Pharmacy Practice</td>
<td>4</td>
</tr>
<tr>
<td>PHRA 1309</td>
<td>Pharmaceutical Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>PHRA 1305</td>
<td>Drug Classification</td>
<td>3</td>
</tr>
<tr>
<td>PHRA 1102</td>
<td>Pharmacy Law</td>
<td>1</td>
</tr>
<tr>
<td>PHRA 1361</td>
<td>Clinical</td>
<td>3</td>
</tr>
<tr>
<td>PHRA 1347</td>
<td>Pharmaceutical Mathematics II</td>
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<tr>
<td>PHRA 1304</td>
<td>Pharmacotherapy &amp; Disease Proc.</td>
<td>3</td>
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<tr>
<td>PHRA 1345</td>
<td>Intravenous Admixture and Sterile Compounding</td>
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<tr>
<td>PHRA 1143</td>
<td>Pharmacy Technician Certification Review</td>
<td>1</td>
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<tr>
<td>PHRA 2361</td>
<td>Clinical</td>
<td>3</td>
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<td>PHRA 1449</td>
<td>Institutional Pharmacy Practice</td>
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<tr>
<td>Elective</td>
<td>Humanities/Fine Arts Elective</td>
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<td>KINE</td>
<td>Kinesiology</td>
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<tr>
<td>COSC 1401</td>
<td>Introduction to Computers OR</td>
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<tr>
<td>ITSC 1401</td>
<td>Introduction to Computers</td>
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SECOND YEAR Credit

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<th>Course Title</th>
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<tbody>
<tr>
<td>PHRA 1240</td>
<td>Pharmacy Third Party Payment</td>
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<tr>
<td>ENGL 1301</td>
<td>Composition and Rhetoric I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2404</td>
<td>Introduction to A&amp;P</td>
<td>4</td>
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<tr>
<td>PHRA 1207</td>
<td>Law and Ethics Pharmacy Law</td>
<td>2</td>
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<tr>
<td>BMGT 1301</td>
<td>Supervision OR</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 1327</td>
<td>Principles of Management OR</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 2303</td>
<td>Problem Solving &amp; Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 1301</td>
<td>Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 1318</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>PHRA 1164</td>
<td>Practicum (or field experience) - Pharmacy Technician/Assistant</td>
<td>1</td>
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</table>
DEGREES AND CERTIFICATES

MRKG 1301 Customer Relationship Mgmt. 3
PHRA 1206 Computerized Drug Delivery Systems I 2

TOTAL Credit hours for Pharmacy Technology AAS 65

1 The humanities/fine arts and kinesiology electives must be chosen from the list of approved core courses in those disciplines. See the core curriculum requirements in the catalog. Humanities or fine arts course must also meet multicultural requirements.
2 Capstone course
Note: Students must meet math competency (MATH 0308 or higher)

PHYSICAL THERAPIST ASSISTANT

The course of study for a physical therapist assistant (PTA) is a two-year program, leading to an associate of applied science degree. One class is accepted each year into the PTA program, which starts in the fall semester. The five-semester program includes one summer semester for a total of 67 credit hours. The program is designed to prepare skilled health care workers to perform treatment under the direction of a licensed physical therapist and includes didactic learning, skill development in the lab and clinical training. The treatments include thermal and electrical modalities, rehabilitation techniques, therapeutic exercise and patient education. Clinical facilities will require students to successfully pass a certified background check and may require a screening for drug usage. Graduates are prepared for employment as PTA’s in acute care hospitals, rehabilitation centers, outpatient clinics, school systems, health agencies and other places physical therapy is practiced. On completion of the program, graduates must pass the FSBPT national licensing exam in order receive a license to practice through the Texas State Board of Physical Therapy Examiners.

The general education core will transfer to a variety of colleges and universities. For more specific information and to obtain the recommended sequencing of courses, contact the program director or a college counselor.

Admission Criteria

In addition to the general admission requirements of the Lone Star College System (LSCS), the following are requirements that must be met in order to apply for admission to the PTA program:

1. Complete college-level reading, writing, and math pre-requisites or LSCS Student Success Initiative (SSI) requirements. All associate degrees require completion of MATH 0308 or higher or placement at MATH 0310 on an approved exam. To determine your SSI status, see a college advisor.
2. A grade point average (GPA) of at least 2.0 in high school and/or college.
3. Must have completed at least 40 hours of observation in the field under the direction of a licensed physical therapist or licensed physical therapist assistant.
4. Prior to the start of the program, students are required to provide proof of the following immunizations: Hepatitis B immunization series (the last shot may be completed during the first semester), Tuberculosis (TB), Varicella (Chicken Pox), Tetanus (Td, DTP), and Measles, Mumps and Rubella (MMR).
5. Final acceptance into the program is contingent upon other criteria as set by LSCS which may include, but not be limited to, the following:
   1. completion of the general education core courses in the degree plan, and
   2. receipt of the highest grades in these courses, and
   3. scores on a standardized admission exam, writing sample and interview.

Applications for admission will be received during the spring semester before the program starts. Because admission to the program is competitive, the students who will be accepted are most likely to be those who score highest on the criteria established by the admissions committee which may include, but not be limited to, the following:

1. completion of the general education core courses in the degree plan, and
2. receipt of the highest grades in these courses, and
3. scores on a standardized admission exam, writing sample and interview.
In order to practice as a physical therapist assistant (PTA), a person must be licensed by the Texas Board of Physical Therapy Examiners. To take the PTA licensing exam, a person must be a graduate of a PTA educational program which is accredited by the Commission on Accreditation in Physical Therapy Education. The PTA program at LSC-Montgomery is accredited by the Commission on Accreditation in Physical Therapy Education.

For more information, go to www.apta.org or contact the Commission on Accreditation in Physical Therapy Education, 1111 North Fairfax Street, Alexandria, VA 22314-1488, 703.684.2782

**PHYSICAL THERAPIST ASSISTANT**

*Associate of applied science degree (AAS_PHTA degree offered at LSC-Montgomery)*

### Prerequisite Credit

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIOL 2401</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>PTHA 1201</td>
<td>The Profession of Physical Therapy</td>
<td>2</td>
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### FIRST YEAR Credit

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1301</td>
<td>Composition &amp; Rhetoric I</td>
<td>3</td>
</tr>
<tr>
<td>PTHA1,2,3</td>
<td>1225 Communication in Health Care</td>
<td>2</td>
</tr>
<tr>
<td>PTHA 1305</td>
<td>Basic Patient Care Skills</td>
<td>3</td>
</tr>
<tr>
<td>PTHA 1413</td>
<td>Functional Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2402</td>
<td>Human Anatomy &amp; Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>PTHA2,3</td>
<td>1431 Physical Agents</td>
<td>4</td>
</tr>
<tr>
<td>PTHA 2201</td>
<td>Essentials of Data Collection</td>
<td>2</td>
</tr>
<tr>
<td>PTHA 2435</td>
<td>Rehabilitation Techniques</td>
<td>4</td>
</tr>
<tr>
<td>PTHA1</td>
<td>1260 Clinical (1 week)</td>
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<tr>
<td>PSYC 2301</td>
<td>General Psychology</td>
<td>3</td>
</tr>
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<td>PTHA 1321</td>
<td>Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>PTHA2,3</td>
<td>2409 Therapeutic Exercise</td>
<td>4</td>
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### SECOND YEAR Credit

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<tr>
<td>PHIL 2306</td>
<td>Introduction to Ethics</td>
<td>3</td>
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<tr>
<td>PTHA2,3</td>
<td>1291 Special Topics in Physical Therapy</td>
<td>2</td>
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<tr>
<td>PTHA1</td>
<td>2461 Clinical (5 weeks)</td>
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</tr>
<tr>
<td>PTHA1</td>
<td>2462 Clinical (5 weeks)</td>
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<tr>
<td>PSYC 2314</td>
<td>Lifespan Growth &amp; Development</td>
<td>3</td>
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<tr>
<td>PTHA1,4</td>
<td>2563 Clinical (6 weeks)</td>
<td>5</td>
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<tr>
<td>PTHA2,3</td>
<td>2217 Issues in Health Care</td>
<td>2</td>
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</table>

**TOTAL Credit Hours for Physical Therapy AAS Degree** 67

1 Combination of courses meet multicultural requirement
2 Combination of courses meet communication competency; PTHA 2409 meets wellness competency
3 Meets computer competency
4 Capstone course

Note: Students must meet math competency (MATH 0308 or higher)

**PROFESSIONAL OFFICE TECHNOLOGY**

The professional office technology associate of applied science degree tech prep program provides students with the skills, knowledge, and attitudes needed for the current and future office environment. Skills include time management, human/customer relations, telephone techniques, administrative management, information management, oral and written communications, word processing, spreadsheets, database, presentation, document layout, and Internet research. Bookkeeping skills are included for those choosing the bookkeeping track of the administrative support certificate, and specialized legal and medical office skills are included for those choosing these specializations.

A wide variety of job opportunities are available to program graduates in many types of offices. Jobs include office assistant, bilingual office receptionist, administrative assistant, bookkeeper, medical office receptionist, medical secretary, medical administrative assistant, legal office receptionist, legal office assistant, and legal office administrative assistant. After a few years in the field, graduates can become an executive assistant, office manager, or office coordinator. Skilled administrative professionals are expected to be in demand in several industries, including education, manufacturing, construction, financial services, employment services, health care and social assistance, legal services, local government, and energy production.

The professional office technology associate of applied science degrees are awarded for successful completion of 62-68 credit hours that include a common core of academic courses and a maximum selection of technical courses based upon specialization.

The program offers three degree specializations: business administrative support, legal office, or medical office administrator. All options offer certificates that build towards the degree. The legal office specialization offers certificates in legal office receptionist, legal office assistant, and legal administrative assistant. The medical office specialization offers certificates in medical office receptionist, medical front office, and medical administrative assistant. The business administrative support specialization offers certificates in bilingual...
office, office assistant, administrative support, which includes a choice of either an administrative or bookkeeping track, and administrative assistant. The certificates provide students with technical skills in just two or three semesters.

Medical office program only: Students will be required to pay liability insurance during the semesters involving off-campus internships. At some facilities, students may be required to show proof of immunizations such as Hepatitis B, tuberculosis, tetanus, and MMR (mumps, measles, rubella). These costs are borne by the student.

Graduation requirement
All students graduating with an AAS or level II certificate must complete LSCS Student Success Initiative (SSI) requirements. To determine your SSI status, see a college advisor.

The general education core will transfer to a variety of colleges and universities, and the degree will transfer in whole to some universities. Through articulation, some students may have earned college credit while in high school. Contact a counselor, division advisor, or faculty member at any college for specific information about articulation and to obtain the recommended sequencing of courses.

BILINGUAL OFFICE CERTIFICATE
(C1_BOS1 certificate offered at LSC-North Harris)

FIRST YEAR Credit
ITSC 1401 Introduction to Computers 4
POFT1 1309 Administrative Office Procedures I 3
POFT 1325 Business Math & Machine Apps 3
POFT 1329 Beginning Keyboarding OR 3
ITSW 1301 Intro to Word Processing
POFT 1371 Bilingual Business Writing 3

TOTAL Credit Hours for Bilingual Office Certificate 16

1 Capstone course

OFFICE ASSISTANT CERTIFICATE
(C1_OAS1 certificate offered at LSC-Kingwood and North Harris)

Prerequisite Credit
POFT 1329 Beginning Keyboarding 3
ITSC 1401 Introduction to Computers OR 4
COSC 1401 Introduction to Computers

ADMINISTRATIVE SUPPORT CERTIFICATE
(C1 ADS1 certificate offered at LSC-Kingwood and North Harris)

Prerequisite Credit
POFT 1329 Beginning Keyboarding 3
ITSC 1401 Introduction to Computers OR 4
COSC 1401 Introduction to Computers

FIRST YEAR Credit
POFT1 1309 Administrative Office Procedures I 3
BMGT 1309 Information and Project Mgmt. 3
POFT 2301 Intermediate Keyboarding OR 3
ITSW 1301 Intro to Word Processing
POFT 1301 Business English 3

TOTAL Credit Hours for Office Assistant Certificate 19

1 Capstone course

ADMINISTRATIVE ASSISTANT CERTIFICATE
(C2_ADA2 certificate offered at LSC-Kingwood and North Harris)

Prerequisite Credit
POFT 1329 Beginning Keyboarding 3
ITSC 1401 Introduction to Computers OR 4
COSC 1401 Introduction to Computers

Semester Total 7

FIRST YEAR Credit
POFT 1309 Administrative Office Procedures I 3
BMGT 1309 Information and Project Mgmt. 3

TOTAL Credit Hours for Administrative Support Certificate 35–36

1 All elective courses must be chosen from the same specialty track.

Track A - Administrative Track: BMGT 1309; ACNT 1303; SPCH 1315 or 1318 or 1321; Capstone is POFT 2331
Track B - Bookkeeping Track: ACNT 1303, ACNT 1311, ACCT 2401; Capstone is ACNT 1382

LSCS Catalog 2011/2012
DEGREES AND CERTIFICATES

SECOND YEAR Credit
ACNT 1311 Introduction to Computerized Acct. 3
ENGL 1301 Composition & Rhetoric I 3
MRKG 1301 Customer Relationship Mgmt. 3
POFT2 2380 Cooperative Education OR 3
POFT2 2386 Internship
Elective3 Humanities/Fine Arts 3

TOTAL Credit Hours for Administrative Assistant Certificate 50

1 Choose from SPCH 1315, 1318, 1321
2 Capstone course
3 This course must meet the multicultural requirement

Note: Students must meet math competency (MATH 0308 or higher)

BUSINESS ADMINISTRATIVE SUPPORT SPECIALIZATION
Associate of applied science degree, Tech Prep
(AAS_BADS degree offered at LSC-Kingwood and North Harris)

Prerequisite Credit
POFT 1329 Beginning Keyboarding 3
ITSC 1401 Introduction to Computers OR 4
COSC 1401 Introduction to Computers

FIRST YEAR Credit
POFT 1309 Administrative Office Procedures I 3
BMGT 1309 Information and Project Mgmt. 3
POFT 2301 Intermediate Keyboarding OR 3
ITSW 1301 Intro to Word Processing
POFT 1301 Business English 3
POFT 1325 Business Math & Machine Apps 3
ITSW 1404 Introduction to Spreadsheets 4
ACNT 1303 Introduction to Accounting I 3
SPCH1 Speech Elective 3
POFT 2331 Administrative Systems 3

SECOND YEAR Credit
ACNT 1311 Introduction to Computerized Acct. 3
ENGL 1301 Composition & Rhetoric I 3
MRKG 1301 Customer Relationship Mgmt. 3
POFT2 2380 Cooperative Education OR 3
POFT2 2386 Internship
Elective3 Humanities/Fine Arts 3
ITSW 1407 Introduction to Database 4
Elective Social/Behavioral Science 3
Elective4 Math/Natural Science 3-4

TOTAL Credit Hours for Business Administrative Support AAS 67-68

1 Choose from SPCH 1315, 1318, 1321
2 Capstone course (course selected for second year, first semester must be different than course used to meet second year, second semester requirement)
3 Must meet multicultural requirement
4 See core requirements for AAS degree for options. If science option is chosen, math competency must be met (MATH 0308 or higher).

MEDICAL OFFICE RECEPTIONIST CERTIFICATE
(C1_MOR1 certificate offered at LSC-Kingwood, Montgomery, North Harris and Tomball)

FIRST YEAR Credit
ITSC 1401 Introduction to Computers OR 4
COSC 1401 Introduction to Computers
POFM 1302 Medical Software Applications 3
POFM1 1309 Medical Office Procedures 3
HITT 1305 Medical Terminology I 3
POFT 1301 Business English 3

TOTAL Credit Hours for Medical Office Receptionist Certificate 16

1 Capstone course

MEDICAL FRONT OFFICE CERTIFICATE
(C1_MFO1 certificate offered at LSC-Kingwood, Montgomery, North Harris and Tomball)

FIRST YEAR Credit
ITSC 1401 Introduction to Computers OR 4
COSC 1401 Introduction to Computers
POFM 1302 Medical Software Applications 3
POFM 1309 Medical Office Procedures 3
HITT 1305 Medical Terminology I 3
POFT 1301 Business English 3
BIOL 2404 Intro to Anatomy & Physiology 4
POFM 1300 Medical Coding Basics 3
POFM 1327 Medical Insurance 3
POFM1 2380 Cooperative Education OR 3
POFM 2386 Internship
ITSW 1301 Intro to Word Processing 3

TOTAL Credit Hours for Medical Front Office Certificate 32

1 Capstone course
DEGREES AND CERTIFICATES

MEDICAL ADMINISTRATIVE ASSISTANT CERTIFICATE
(C2_MAA2 certificate offered at LSC-Kingwood, Montgomery, North Harris and Tomball)

FIRST YEAR Credit
POFM 1309 Medical Office Procedures 3
HITT 1305 Medical Terminology I 3
POFT 1301 Business English 3
POFM 1302 Medical Software Applications 3
ITSC 1401 Introduction to Computers OR 3
COSC 1401 Introduction to Computers 3
BIOL 2404 Intro to Anatomy & Physiology 4
POFM 1327 Medical Insurance 3
ITSW 1301 Intro to Word Processing 3
HPRS 2332 Health Care Communications 3
POFM 1300 Medical Coding Basics 3

SECOND YEAR Credit
ACNT 1303 Introduction to Accounting I 3
ENGL 1301 Composition & Rhetoric I 3
POFT 1325 Business Math & Machine Apps 3
POFM 1328 Cooperative Education OR 3
POFM 2386 Internship 3
POFM 2333 Medical Document Production OR 3
POFM 2310 Intermediate Medical Coding 3

TOTAL Credit Hours for Medical Administrative Assistant Certificate 47

1 Capstone course
Note: Students must meet math competency (MATH 0308 or higher)

MEDICAL OFFICE ADMINISTRATOR SPECIALIZATION
Associate of applied science degree, Tech Prep
(AAS_MOAD specialization offered at LSC-Kingwood, North Harris and Tomball)

FIRST YEAR Credit
ITSC 1401 Introduction to Computers OR 4
COSC 1401 Introduction to Computers 3
POFM 1302 Medical Software Applications 3
HITT 1305 Medical Terminology I 3
POFT 1301 Business English 3
POFM 1309 Medical Office Procedures 3
BIOL 2404 Intro to Anatomy & Physiology 4
ITSW 1301 Intro to Word Processing 3
POFM 1327 Medical Insurance 3
HPRS 2332 Health Care Communications 3
POFM 1300 Medical Coding Basics 3

SECOND YEAR Credit
ACNT 1303 Introduction to Accounting I 3
ENGL 1301 Composition & Rhetoric I 3
POFM 2310 Intermediate Medical Coding 3
POFT 1325 Business Math & Machine Apps 3
KINE Any physical activity course 1
SPCH 1311 Intro to Speech Communications OR 3
SPCH 1318 Interpersonal Communications OR 3
SPCH 1321 Business and Professional Communication 3
POFM 2333 Medical Document Production 3
HPRS 2321 Medical Law and Ethics OR 3
for Health Professionals
Elective1 Humanities/Fine Arts 3
Elective1 Social/Behavioral Science 3
POFM2 2380 Cooperative Education OR 3
POFM2 2386 Internship 3

TOTAL Credit Hours for Medical Office Specialization 63

1 Choose one elective to meet the multicultural component.
2 Capstone course
Note: Students must meet math competency (MATH 0308 or higher)

LEGAL OFFICE RECEPTIONIST CERTIFICATE
(C1_LOR1 certificate offered at LSC-Kingwood)

FIRST YEAR Credit
POFL 1303 Legal Office Procedures 3
POFL 1305 Legal Terminology 3
POFT 1301 Business English 3
POFT 1329 Beginning Keyboarding OR 3
ITSW 1301 Intro to Word Processing 3
ITSC 1401 Introduction to Computers OR 3
COSC 1401 Introduction to Computers 4

TOTAL Credit Hours for Legal Office Receptionist Certificate 16

1 Capstone course

LEGAL OFFICE ASSISTANT CERTIFICATE
(C1_LES1 certificate offered at LSC-Kingwood)

FIRST YEAR Credit
POFL 1303 Legal Office Procedures 3
POFL 1305 Legal Terminology 3
POFT 1301 Business English 3
POFT 1329 Beginning Keyboarding OR 3
ITSW 1301 Intro to Word Processing 3
ITSC 1401 Introduction to Computers OR 3
ACNT 1303 Introduction to Accounting I 3

TOTAL Credit Hours for Medical Office Specialization 47

1 Capstone course
Note: Students must meet math competency (MATH 0308 or higher)
LEGAL ADMINISTRATIVE ASSISTANT CERTIFICATE
(C2_LAD2 certificate offered at LSC-Kingwood)

FIRST YEAR Credit
POFL 1303 Legal Office Procedures 3
POFL 1305 Legal Terminology 3
POFT 1301 Business English 3
POFT 1329 Beginning Keyboarding OR 3
ITSW 1301 Intro to Word Processing
ITSC 1401 Introduction to Computers OR
COSC 1401 Introduction to Computers 4
ACNT 1303 Introduction to Accounting I 3
POFL 2301 Legal Document Processing 3
POFL 2305 Intro to Legal Research 3
POFT 2331 Administrative Systems 3
SPCH 1311 Intro to Speech Communications OR 3
SPCH 1318 Interpersonal Communications OR
SPCH 1321 Business and Professional Communication

SECOND YEAR Credit
BUSI 2301 Business Law OR 1-3
Elective¹ Technical
ENGL 1301 Composition & Rhetoric I 3
ITSW 1404 Introduction to Spreadsheets 4
POFL 2380 Cooperative Education OR
POFT 2381 Cooperative Education
POFT 2301 Intermediate Keyboarding OR 3
Elective¹ Technical
Elective² Humanities/Fine Arts 3
Elective² Math/Natural Science 3-4
Elective² Social/Behavioral Science 3
ITSC 2331 Integrated Software Applications III 3
ITSW 1407 Introduction to Databases 4
KINE Any physical activity course 1

TOTAL Credit Hours for Legal Specialization 62-65
¹ POFT, POFM, POFL, ACNT, BUSG, IBUS or departmental approval.
² Choose course from one elective to meet the multicultural component.
³ See core requirements for AAS degree for options. If science option is chosen, math competency must be met (MATH 0308 or higher).
⁴ Capstone course

LEGAL OFFICE SPECIALIZATION
Associate of applied science degree, Tech Prep
(AAS_OLOS specialization offered at LSC-Kingwood)

FIRST YEAR Credit
ITSC 1401 Introduction to Computers OR
COSC 1401 Introduction to Computers 4
ITSW 1301 Intro to Word Processing OR
POFL 1303 Legal Office Procedures 3
POFL 1305 Legal Terminology 3
POFT 1301 Business English 3
POFT 1305 Legal Terminology 3
ACNT 1303 Introduction to Accounting I 3
POFL 2301 Legal Document Processing 3
POFL 2305 Intro to Legal Research 3
POFT 2380 Cooperative Education OR
POFT 2331 Administrative Systems 3
SPCH 1311 Intro to Speech Communications OR 3
SPCH 1318 Interpersonal Communications OR
SPCH 1321 Business and Professional Communication

SECOND YEAR Credit
BUSI 2301 Business Law OR 1-3
Elective¹ Technical
ENGL 1301 Composition & Rhetoric I 3
ITSW 1404 Introduction to Spreadsheets 4
POFL 2380 Cooperative Education OR
POFT 2381 Cooperative Education
POFT 2301 Intermediate Keyboarding OR 3
Elective¹ Technical
Elective² Humanities/Fine Arts 3
Elective² Math/Natural Science 3-4
Elective² Social/Behavioral Science 3
ITSC 2331 Integrated Software Applications III 3
ITSW 1407 Introduction to Databases 4
KINE Any physical activity course 1

TOTAL Credit Hours for Legal Assistant Administrative Certificate 45-47
¹ Technical electives include POFT, POFM, POFL, ACNT, BUSG, IBUS, or departmental approval.
² Capstone course
    Note: Students must meet math competency (MATH 0308 or higher)

RESPIRATORY CARE
The course of study for a respiratory therapist is a 65 credit-hour (six semesters) associate of applied science degree program. The respiratory care program prepares graduates for the credentialing examinations from the NBRC (National Board for Respiratory Care). The program is fully accredited by CoARC (Commission on Accreditation for Respiratory Care). The program prepares graduates to be competent in delivery of therapeutic procedures in acute care settings,
DEGREES AND CERTIFICATES

in performing diagnostic procedures, and in performing rehabilitation therapeutic procedures. The respiratory care program also prepares graduates to assist physicians in the diagnosis of cardiopulmonary disorders, to provide emergency cardiopulmonary care in the emergency room, and to implement therapist driven protocols in the practice of respiratory care. Many clinical facilities will require students to successfully pass a background check and drug screen. Areas for employment of respiratory care professionals include acute care hospitals, sub-acute care hospitals, rehabilitation hospitals, hyperbaric medicine, home care facilities, and physician offices.

The general education core will transfer to a variety of colleges and universities. Contact a counselor or faculty member at any of the colleges for specific information and to obtain the recommended sequencing of courses. See LoneStar.edu/respiratory-care-requirements for additional program information.

General Guidelines
Upon acceptance into the program, students must submit a record of current immunizations required by the Texas Department of Health. Criminal background checks may be required by clinical facilities. The background check will be processed through the Federal Bureau of Investigations (FBI).

Completion of the respiratory care program does not guarantee eligibility to take the CRT exam administered by the NBRC or certification by the Texas Department of Health. The Texas Department of Health Respiratory Care Certification will consider individuals with histories of convictions, mental illness and/or chemical dependency on an individual basis after review.

Admissions Criteria
The respiratory care program accepts new students in the spring and fall of every year. Prerequisite courses must be completed one semester prior to the semester in which the student wishes to begin the program. In addition to the system admissions requirements, the following are requirements for the respiratory therapist program:

Program Application Instructions
1. Minimum age of 18
2. Graduation from high school verified with high school transcript or GED certificate verified by a copy of the certificate.
3. Complete TSI requirements: complete MATH 0308 with eligibility to enter MATH 0310. To determine your status, see college advisor.
4. College placement exam results
5. Complete nine (9) semester hours of college level course work including: ENGL 1301 and BIOL 2401 with a minimum grade point average of 2.5 or higher.
6. Submit official transcripts from all colleges attended other than LSCS. Submit these documents directly to the respiratory care department at LSC-Kingwood.
7. Complete Health Sciences Reasoning Test (HSRT).
8. Complete and submit an application to the respiratory care program.
9. Submit an essay written on why the individual wishes to enter the field of respiratory care.
10. Submit an advising profile directly to the respiratory care department at LSC-Kingwood.
11. Application and all required documents must be submitted before the specified application deadlines.

College eligibility information may be obtained from the counseling office 281.312.1604.

Student Selection
1. Admission is limited to twenty-five (25) students.
2. Students are ranked and selected by the admissions committee using the following criteria:
   a. Scoring of all academic courses applying to the degree plan using a numeric scale
   b. Completion of previous degrees
   c. HSRT scores
   d. Essay
   e. Points are deducted for retakes of academic courses.

Pre-Admission
1. A physical examination report with laboratory tests and immunization records signed by a licensed healthcare provider within six weeks of the first class day is required. This form will be
provided upon acceptance into the program.

2. Hepatitis B vaccination is required for all admissions to the respiratory care program. The enrolling student must complete the series of three vaccinations prior to entering the clinical practicum in the hospital setting.

3. All students must complete background checks prior to entering the respiratory care program. Drug testing will also be completed prior to entering clinical affiliates which require mandatory drug testing. Contact the department for information at 281.312.1708.

4. Attendance at an orientation session, after student selection is complete, will be scheduled prior to the first class meeting.

### RESPIRATORY CARE THERAPIST

**Associate of applied science degree**  
(AAS_RESC degree offered at LSC-Kingwood)

#### FIRST YEAR Credit

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>RSPT 1207</td>
<td>Cardiopulmonary A&amp;P</td>
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<tr>
<td>RSPT 1166</td>
<td>Practicum</td>
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<tr>
<td>RSPT 1101</td>
<td>Intro to Respiratory Care</td>
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<tr>
<td>RSPT 1325</td>
<td>Respiratory Care Sciences</td>
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<tr>
<td>RSPT 1429</td>
<td>Respiratory Care Fundamentals I</td>
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<tr>
<td>RSPT 1213</td>
<td>Basic Resp. Care Pharmacology</td>
<td>2</td>
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<tr>
<td>RSPT 1160</td>
<td>Clinical</td>
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<td>RSPT 1431</td>
<td>Respiratory Care Fundamentals II</td>
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<td>BIOL 2401</td>
<td>Anatomy &amp; Physiology I</td>
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<td>RSPT 1167</td>
<td>Practicum</td>
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<td>RSPT 2210</td>
<td>Cardiopulmonary Disease</td>
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<td>RSPT 2414</td>
<td>Mechanical Ventilation</td>
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<tr>
<td>BIOL 2402</td>
<td>Human Anatomy &amp; Physiology II</td>
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#### SECOND YEAR Credit

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<tr>
<td>RSPT 1241</td>
<td>Respiratory Home Care/Rehabilit.</td>
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<tr>
<td>BIOL 2420</td>
<td>Medical Microbiology</td>
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<tr>
<td>RSPT 2166</td>
<td>Practicum</td>
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<tr>
<td>RSPT 2325</td>
<td>Cardiopulmonary Diagnostics</td>
<td>3</td>
</tr>
<tr>
<td>RSPT 2353</td>
<td>Neonatal/Pediatric Cardiopulmonary Care</td>
<td>3</td>
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<tr>
<td>KINE</td>
<td>Any physical activity course</td>
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<tr>
<td>RSPT 2160</td>
<td>Clinical</td>
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<tr>
<td>RSPT 2139</td>
<td>Advanced Cardiac Life Support</td>
<td>1</td>
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<tr>
<td>RSPT 2243</td>
<td>Research Application</td>
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<tr>
<td>PSYC 2301</td>
<td>General Psychology</td>
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<td>Elective*</td>
<td>Humanities/Fine Arts</td>
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<td>ENGL 1301</td>
<td>Composition &amp; Rhetoric I</td>
<td>3</td>
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<td>RSPT 2230</td>
<td>Examination Preparation</td>
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<tr>
<td>RSPT 2366</td>
<td>Practicum</td>
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</table>

**TOTAL Credit Hours for AAS Degree** 65

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1. Meets computer competency  
2. Course meets communication competency  
3. Select course to meet multicultural requirement  
4. Capstone course  

Note: Students must meet math competency (MATH 0308 or higher)

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### SURGICAL TECHNOLOGY

A surgical technologist is an allied health professional who works as part of the surgical team to ensure that the operative procedure is conducted under optimal conditions. The surgical technologist normally functions in a sterile capacity during the surgical procedure, but also performs many non-sterile duties throughout the course of the workday. The program in surgical technology includes both theory and practical clinical experience designed to prepare the student to pass the national certification examination for surgical technologists.

Surgical technologists will be responsible for preoperative, intraoperative, and postoperative duties that may include preparing the operating room, create and maintain the sterile field, count the necessary instruments, expose the operative site with sterile drapes, specimen care, pass instrumentation and supplies to the surgeon, dressing application, removal of used instruments from the O.R., and preparation of the O.R. for the next patient.

Most surgical technologists are employed in hospital surgery departments, obstetric departments, and ambulatory care centers. Because of the broad educational background, however, combined with a specialized focus, other options may be open to the experienced surgical technologist. These include specialization in an area of interest such as cardiac, orthopedic, pediatric, plastic, or general surgery, advancement to the role of the surgical assistant, employment by a medical corporation to represent their products, military service, technical writing, illustration, and photography.

The surgical technology program at LSC-Tomball is a three semester, 42 credit hour (1344 contact hour) program that normally runs over a spring, summer, and fall semester. There are 11 workforce courses and one academic credit course (BIOL 2404).
DEGREES AND CERTIFICATES

VETERINARY TECHNOLOGY

The two-year veterinary technology associate of applied science degree provides the graduate with information, skills and experience he/she will need to follow a fulfilling career in a veterinary hospital, a zoological garden, industry, a medical research laboratory, a governmental regulatory program or the Veterinary Medical Corp.

Gaining its accredited status in 1990, today the veterinary technology program boasts a 99.98% passage rate on the State and National Board Examination. This success rate is unparalleled in the State of Texas and is rated as one of the highest passage percentages of the 160 plus programs accredited by the American Veterinary Medical Association.

Because the veterinary technology program is fully accredited by the American Veterinary Medical Association, students are eligible to take all State and National Board examinations as well as work in all areas of animal health care. An individual spends time in laboratories working with cows, dogs, cats, horses, pigs, sheep, goats, exotics and even the more traditional laboratory animals like mice and rabbits. Upon graduation, the student is free to pursue any type of animal care situation they so desire.

Job opportunities for Registered Veterinary Technicians have never been better. Today there are from 8 to 10 fulfilling and exciting jobs available to each graduate just in the immediate Harris-Montgomery County area. As well as the impressive job market, it should be mentioned that scholarships are also available while the student is enrolled.

The general education core will transfer to a variety of colleges and universities. The entire 72 hours of credit in the veterinary technology program will transfer to some traditional four year colleges so students may pursue a four year baccalaureate degree in either animal science or agricultural business. Contact an advisor or faculty member at any of the colleges for specific information and to obtain the recommended sequencing of courses.

SURGICAL TECHNOLOGIST CERTIFICATE
(C1_SGT1 certificate offered at LSC-Tomball)

FIRST YEAR Credit

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
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<td>SRGT 1301</td>
<td>Medical Terminology</td>
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<tr>
<td>BIOL 2404</td>
<td>Intro to Anatomy &amp; Physiology</td>
<td>4</td>
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<tr>
<td>SRGT 1405</td>
<td>Intro to Surgical Technology</td>
<td>4</td>
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<td>SRGT 1260</td>
<td>Clinical I – Surgical/Operating</td>
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<td>SRGT 1409</td>
<td>Fundamentals of Perioperative Concepts</td>
<td>4</td>
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<td>SRGT 1541</td>
<td>Surgical Procedures I</td>
<td>5</td>
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<td>SRGT 1460</td>
<td>Clinical II</td>
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<td>HPRS 2300</td>
<td>Pharmacology for Health Professions</td>
<td>3</td>
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<td>SRGT 1542</td>
<td>Surgical Procedures II</td>
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<td>SRGT 2462</td>
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<td>HPRS 2301</td>
<td>Pathophysiology</td>
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<td>SRGT 2130</td>
<td>Professional Readiness</td>
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TOTAL Credit Hours for Surgical Technologist Certificate 42

1 Capstone

Admission Criteria

In addition to the system admission requirements, the following are required for the surgical technology program:

1. Graduation from high school verified by an official transcript or GED certificate. If the high school transcript is from a country other than the USA, it must be evaluated by an approved transcript evaluation company.

2. Submission of passing THEA exam scores in reading, writing and math, or complete LSCS Student Success Initiative (SSI) requirements. To determine your SSI status, see a college advisor.

3. Maintain a cumulative grade point average of 2.0 in college level courses.

4. Applicants must return a completed application packet to LSC-Tomball. The complete packet includes the following items:
   - Completed Application must be signed by a LSC-Tomball Advisor
   - Immunizations must be complete
   - Background Check results turned in with application
   - Official transcripts from colleges other than LSC

Surgical Technologist
(C1_SGT1 certificate offered at LSC-Tomball)
General Guidelines
Any student anticipating entrance into the veterinary technology program should ensure that remediation is not required after admission examinations are completed and have been reviewed. If admission examinations indicate the student is in need of remediation in math, writing or reading, the student must successfully complete those requirements before applying for entry into the veterinary technology program.

Admission Procedure
In addition to the admission requirements of the LSCS, the following are requirements for admission into the veterinary technology associate of applied science degree program:

ACT scores of: Math 24+ Writing 19+ Reading 19+ College Math TSI met (if within 5 yrs)

SAT scores of: Math 520+ Writing 500+ Reading 500

THEA scores of: Math 270+ Writing 220+ Reading 230+

ASSET scores of: Math IA 45+ or CA 23+ Writing 45+ and 6 essay or 7+ essay Reading 41+

COMPASS scores of: Math Alg 60+ or College Algebra 0-40 Writing 85+ and 6 essay or 7+ essay Reading 81+

ACCUPLACER scores of: Math 86+ Writing 80+ Reading 78+

Students should submit a Lone Star College application along with current (official) college transcripts to the admissions department at LSC-Tomball. After visiting with an advisor, the student should submit a separate application to the veterinary technology program with duplicate of college transcript. Note: the application to the veterinary technology program should be co-signed by LSC-Tomball advisor during the student’s visit in the admissions department. Go to LoneStar.edu/veterinary-technology-dept-tomball for the veterinary technology admissions application.

Program applications are reviewed and evaluated for fall admission on June 1 of each year. All applicants will be notified of their status following applicant review date. Students may be notified by letter, e-mail or phone. It is the responsibility of the applicant to ensure all personal information on the application is current.

When admitted to the veterinary technology program, the student should ensure that non-veterinary technology courses (math, English, etc.) are never scheduled between 7:30 AM and 8:50 AM Monday through Friday. This time is reserved for all animal clinical laboratories at LSC-Tomball.

The veterinary technology program will have an information session at the beginning of July each year. Students that have received admission notifications are encouraged to attend as important information on rules and program requirements will be covered in detail by the program faculty and staff. Questions will be welcomed.

Students receiving admission to the program should be aware that class notes, books, DVDs, and other supplies are required for every class along with special clothing for all clinical laboratories. Students should expect to purchase all clothing supplies at the beginning of their first fall semester and all classroom supplies should be purchased during the first week of each VTHT class.

Progression Requirements
There are no specific progression requirements for the veterinary technology program. However, VTHT 1345, VTHT 2323, VTHT 2431, VTHT 1441, VTHT 1140 and VTHT 2360 should be completed within one calendar year prior to graduation. VTHT 1205, 1413, and 2360 are offered more than once yearly. All other VTHT courses are only offered in the semester indicated in the AAS outline.

Registration Examination
Students in veterinary technology at LSCS are considered eligible to sit for the State and National Veterinary Technology Board Examinations when they have completed all required coursework and have received their AAS degree in veterinary technology from LSC-Tomball.

Contact Kathleen Diamond, RVT, at 281.351.3358 or kathleen.j.diamond@LoneStar.edu or Joyce E. Brod, RVT at 281-357-3714, joyce.e.brod@lonestar.edu for more information. Web site: http://tomball.LoneStar.edu/vettech
**DEGREES AND CERTIFICATES**

**VETERINARITY TECHNOLOGY CERTIFICATE**
*(C1_VET1 certificate offered at LSC-Tomball)*

**FIRST YEAR Credit**
- VTHT 1301 Intro to Veterinary Technology 3
- VTHT 1205 Vet Medical Terminology 2
- BIOL 1406 Biology I 4
- ENGL 1301 Composition and Rhetoric I 3
- VTHT 1413 Veterinary Anatomy & Physiology 4
- VTHT 1209 Veterinary Nutrition 2
- ENGL 1302 Composition and Rhetoric II 3
- MATH 1332 College Math for Liberal Arts 3
- VTHT 1125 Pharmacology Calculations 1
- VTHT 1266 Practicum Veterinary/Animal Health Technology/Technician 2
- VTHT 2321 Veterinary Parasitology 3

**TOTAL Credit Hours for Certificate** 30

1 Capstone

Students should not register for VTHT or any other classes from Monday-Friday 7:30 a.m. - 9:00 a.m. These times must remain open for clinical rotation laboratory.

VTHT 1205 and 1413 are offered more than once a year.

All other VTHT courses are offered only in the semester indicated in the certificate outline.

**VISUAL COMMUNICATION**

The visual communication program trains today’s digital designers in the communication media of the future. This program provides students with skills needed for careers in commercial art and design, desktop publishing, web design, 3-D animation, multimedia development, video and post-production. The demand for these skills comes from a variety of industries including advertising, consumer products, education, entertainment, government, legal, manufacturing, medical, petroleum, publishing, transportation, and video production. The visual communication associate of applied science degree is awarded for successful completion of 65-67 credit hours that include a common core of academic and a selection of technical courses based on specialization.

This degree has five areas of specialization: graphic design, multimedia, video and post-production, web design, or 3D animation. Both the graphic design and multimedia degree programs are recognized by the Texas Skill Standards Board (TSSB) as having curriculum that aligns with the national industry-defined and industry-recognized skills standards. Students completing the degree or certificate are prepared for entry-level positions. Certificates are available within specialization areas in graphic
DEGREES AND CERTIFICATES

design, motion graphics, video and post-production, multimedia design, 3D animation, and web design. These certificates provide an opportunity to acquire technical skills in two to three semesters.

The general education core courses will transfer to a variety of universities, and the degree articulates to many area universities. Please see the department chair, faculty, or advisor for specific information.

### 3D ANIMATION CERTIFICATE
(C2_ANI2 certificate offered at LSC-North Harris)

**FIRST YEAR Credit**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ARTV 1345</td>
<td>3-D Modeling and Rendering I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 1316</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ARTC 1302</td>
<td>Digital Imaging I</td>
<td>3</td>
</tr>
<tr>
<td>IMED 1301</td>
<td>Introduction to Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>ARTV 1303</td>
<td>Basic Animation</td>
<td>3</td>
</tr>
<tr>
<td>ARTV 1341</td>
<td>3-D Animation I</td>
<td>3</td>
</tr>
<tr>
<td>ARTV 2345</td>
<td>3-D Modeling and Rendering II</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 1317</td>
<td>Drawing II</td>
<td>3</td>
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<tr>
<td>ARTV 1351</td>
<td>Digital Video</td>
<td>3</td>
</tr>
<tr>
<td>ITSC 1401</td>
<td>Introduction to Computers OR</td>
<td>4</td>
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<tr>
<td>COSC 1401</td>
<td>Introduction to Computers OR</td>
<td>4</td>
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</tbody>
</table>

**TOTAL Credit Hours for 3D Animation Certificate** 43

1 Capstone course

Note: Students must meet math competency (MATH 0308 or higher)

### GRAPHIC DESIGN CERTIFICATE
(C2_GRP2 certificate offered at LSC-CyFair, Kingwood and North Harris)

**FIRST YEAR Credit**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ARTS 1311</td>
<td>Design I - 2-D</td>
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<td>ARTS 1316</td>
<td>Drawing I</td>
<td>3</td>
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<td>ARTC 1317</td>
<td>Design Communications I</td>
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<td>ARTC 1313</td>
<td>Digital Publishing I</td>
<td>3</td>
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<tr>
<td>ARTC 1302</td>
<td>Digital Imaging I</td>
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<td>ARTS 2311</td>
<td>Design III-Color</td>
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<td>ARTC 2313</td>
<td>Digital Publishing II</td>
<td>3</td>
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<td>ARTC 2305</td>
<td>Digital Imaging II</td>
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<tr>
<td>ARTC 1353</td>
<td>Computer Illustration</td>
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<tr>
<td>ITSC 1310</td>
<td>Intro. Presentation Graph. Software</td>
<td>3</td>
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<tr>
<td>IMED 1316</td>
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<tr>
<td>ARTC 2347</td>
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<td>ARTC 2348</td>
<td>Digital Publishing III</td>
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<tr>
<td>ARTC 2335</td>
<td>Portfolio Development for Graphic Design OR</td>
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</table>

**TOTAL Credit Hours for Graphic Design Certificate** 45

1 Capstone course

Note: Students must meet math competency (MATH 0308 or higher)

### MOTION GRAPHICS CERTIFICATE
(C1_MTG1 certificate offered at LSC-CyFair, Kingwood and North Harris)

**FIRST YEAR Credit**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>ARTC 1317</td>
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<td>3</td>
</tr>
<tr>
<td>IMED 1301</td>
<td>Introduction to Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>IMED 1316</td>
<td>Web Design I</td>
<td>3</td>
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<tr>
<td>ITSC 1401</td>
<td>Introduction to Computers OR</td>
<td>4</td>
</tr>
<tr>
<td>COSC 1401</td>
<td>Introduction to Computers OR</td>
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</tr>
<tr>
<td>IMED 1345</td>
<td>Interactive Digital Media I</td>
<td>3</td>
</tr>
<tr>
<td>FLMC 1331</td>
<td>Video Graphics and Visual Effects I</td>
<td>3</td>
</tr>
<tr>
<td>ARTC 2305</td>
<td>Digital Imaging II</td>
<td>3</td>
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<tr>
<td>ARTV 1351</td>
<td>Digital Video</td>
<td>3</td>
</tr>
<tr>
<td>RTVB 1321</td>
<td>TV Field Production OR</td>
<td>3</td>
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<tr>
<td>RTVB 1325</td>
<td>TV Studio Production</td>
<td>3</td>
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<tr>
<td>ARTC 1302</td>
<td>Digital Imaging I</td>
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<tr>
<td>FLMC 2331</td>
<td>Video Graphics and Visual Effects II</td>
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<tr>
<td>ARTV 1351</td>
<td>Digital Video</td>
<td>3</td>
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<tr>
<td>RTVB 1381</td>
<td>Co-op Education - Radio and Television OR</td>
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<tr>
<td>ARTV 1341</td>
<td>Advanced Digital Video</td>
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**TOTAL Credit Hours for Motion Graphics Certificate** 37

1 Capstone course

### MULTIMEDIA DESIGNER CERTIFICATE
(C1_MDE1 certificate offered at LSC-CyFair, Kingwood and North Harris)

**FIRST YEAR Credit**

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<td>Introduction to Digital Media</td>
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<td>COSC 1401</td>
<td>Introduction to Computers OR</td>
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<tr>
<td>IMED 1345</td>
<td>Interactive Digital Media I</td>
<td>3</td>
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<td>FLMC 1331</td>
<td>Video Graphics and Visual Effects I</td>
<td>3</td>
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<td>IMED 1316</td>
<td>Web Design I</td>
<td>3</td>
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<tr>
<td>IMED 1341</td>
<td>Interface Design</td>
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<tr>
<td>IMED 2313</td>
<td>Project Analysis &amp; Design</td>
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<tr>
<td>IMED 1345</td>
<td>Interactive Digital Media I</td>
<td>3</td>
</tr>
<tr>
<td>ARTV 1351</td>
<td>Digital Video</td>
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<td>FLMC 1331</td>
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<td>IMED 2311</td>
<td>Portfolio Development OR</td>
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<tr>
<td>IMED 2380</td>
<td>Co-op Education-Web Page, Digital/Multmd &amp; Info Resour. Design</td>
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**TOTAL Credit Hours for Multimedia Designer Certificate** 37

1 Capstone course
**VISUAL COMMUNICATION**

Associate of applied science degree, Tech Prep
*(degree offered at LSC-CyFair, Kingwood and North Harris)*

**FIRST YEAR Credit**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<td>ARTS 1311 Design I 2-D</td>
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<td>ARTS 1316 Drawing I</td>
<td>3</td>
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<td>ARTC 1302 Digital Imaging I</td>
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<tr>
<td>ARTC 1317 Design Communication I</td>
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<tr>
<td>IMED 1301 Introduction to Digital Media</td>
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<td>ITSC 1401 Introduction to Computers OR</td>
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<td>COSC 1401 Introduction to Computers</td>
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<tr>
<td>Elective1 Social/Behavioral Science</td>
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<tr>
<td>ENGL 1301 Composition and Rhetoric I</td>
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<td>KINE Any physical activity course</td>
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**SECOND YEAR Credit**

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<td>Tech.Track Track (A, B, C, D, or E)</td>
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<tr>
<td>Tech.Track Track (A, B, C, D, or E)</td>
<td>3</td>
</tr>
<tr>
<td>Elective1 Math/Natural Science</td>
<td>3-4</td>
</tr>
<tr>
<td>Capstone4 Cooperative Education OR</td>
<td>3</td>
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<tr>
<td>Portfolio Development</td>
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</tbody>
</table>

**TOTAL Credit Hours for Visual Communication AAS** 65-67

1 Capstone course

---

**WEB DESIGN CERTIFICATE**

*(C1_MWD1 certificate offered at LSC-North Harris)*

**FIRST YEAR Credit**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ARTC 1317 Design Communication I</td>
<td>3</td>
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<tr>
<td>ARTC 1302 Digital Imaging I</td>
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<td>4</td>
</tr>
<tr>
<td>COSC 1401 Introduction to Computers</td>
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<tr>
<td>ITSE 1402 Computer Programming</td>
<td>4</td>
</tr>
<tr>
<td>ARTC 1353 Computer Illustration</td>
<td>3</td>
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<tr>
<td>IMED 1316 Web Design I</td>
<td>3</td>
</tr>
<tr>
<td>IMED 1341 Interface Design</td>
<td>3</td>
</tr>
<tr>
<td>IMED 1345 Interactive Digital Media I</td>
<td>3</td>
</tr>
<tr>
<td>IMED1 2311 Portfolio Development OR</td>
<td>3</td>
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<tr>
<td>IMED1 2380 Cooperative Education</td>
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<tr>
<td>IMED 2309 Internet Commerce</td>
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<tr>
<td>IMED 2315 Web Design II</td>
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<tr>
<td>IMED 2345 Interactive Digital Media II</td>
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</table>

**TOTAL Credit Hours for Web Design Certificate** 41

1 Capstone course
DEGREES AND CERTIFICATES

Track B-Multimedia AAS_VSCM offered at LSC-CyFair, Kingwood and North Harris
ARTC 1353, ARTV 1345, IMED 1316, IMED 1341, IMED 2313, FLMC 1331, IMED 1345, ARTV 1351, IMED 2345, FLMC 2331; These courses must be taken in designated sequence: FLMC 1331 and FLMC 2331; For capstone course, choose IMED 2311 or IMED 2380

Track C-Video and Post-Production AAS_VSCV offered at LSC-CyFair, Kingwood and North Harris
ARTC 2305, ARTV 1351, ARTV 2341, IMED 1391, FLMC 1304, FLMC 1331, FLMC 2331 and RTVB 2337; take either RTVB 1321 or RTVB 1325; choose 1 additional course from ARTC, ARTV, IMED, FLMC or RTVB; For capstone course, choose RTVB 2381 or IMED 2311

Track D-Web Design AAS_VSCW offered at LSC-North Harris
ARTC 1353, IMED 1316, IMED 1341, IMED 2313, IMED 1345, IMED 2315, IMED 2309, IMED 2349, IMED 2345, ITSE 1402; For capstone course, choose IMED 2311 or IMED 2380

Track E- 3D Animation AAS_VSC3 offered at LSC-North Harris
ARTV 2345, ARTV 1303, ARTV 1345, ARTV 2351, ARTS 1317, ARTS 1312, ARTV 1341, FLMC 1331, ARTV 1351, GAME 1303; For capstone course, choose IMED 2311 or IMED 2380

DIGITAL PHOTOGRAPHY
ENHANCED SKILLS CERTIFICATE
(C3_DPHT certificate offered at LSC-CyFair, Kingwood, North Harris)

This program is for AAS graduates in Visual Communication who wish to develop skills in digital photography.

FIRST YEAR Credit

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>PHTC 1311</td>
<td>Fundamentals of Photography</td>
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</tr>
<tr>
<td>PHTC 2349</td>
<td>Photo Digital Imaging II</td>
<td>3</td>
</tr>
<tr>
<td>PHTC 2301</td>
<td>Intermediate Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHTC 1345</td>
<td>Illustrative Photography I</td>
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</table>

TOTAL Credit Hours for Digital Photography Enhanced Skills Certificate 12

WELDING TECHNOLOGY

The associate of applied science degree in welding technology is designed to prepare the individual for a career as a welding technician in the fabrication, construction and manufacturing industries. The program includes hands-on application of SMAW, GTAW, GMAW, and FCAW processes, in all positions, using pipe, plate and structural shapes. The student is also exposed to basic metallurgy and inspection procedures. The academic requirements of the program provide the foundation for continued studies should the student desire to continue his or her education.

The welding technology certificate program prepares the student for entry-level employment as a structural welder. The program provides the essential skills and safety practices in SMAW welding procedures in both structural plate and pipe. Courses completed in this certificate program may be applied toward the welding technology associate of applied science degree.

Creation of a product or system requires inspection and testing to ensure conformance to specification and reliability of operation. The certificate programs in nondestructive inspection and nondestructive testing are designed to train students in entry level skills relevant to such industries as shipbuilding, aeronautic, piping and vessel fabrication, bridge building and residential construction. The introduction of ISO (International Organization for Standardization) has expanded and enhanced the demand for qualified inspectors and NDT technicians.

New developments in the fields of space exploration, oceanography and nanotechnology, as well as the demand for lighter and stronger engineering materials, improved coating for materials and advanced welding techniques mean that inspectors and technicians must receive a higher level of training.

The nondestructive testing certificate is intended to provide training to meet the challenges of the twenty-first century. Testing methods covered include codes (AWS, ASME), metallurgy, liquid penetrant,
magnetic particle and ultrasonics. Courses meet the requirements of American Society of Nondestructive Testing (ASNT) recommended practice SNT-TC-1A.

The nondestructive inspection certificate includes film (radiography) interpretation and other means of inspecting a material, weldment or product while maintaining structural integrity. This certificate program provides an in-depth coverage of the American Welding Society (AWS) and American Society of Mechanical Engineering (ASME) codes for structural welding and pressure vessel fabrication. This program adequately prepares students for the AWS Certified Welding Inspector (CWI) examination.

The general education core will transfer to a variety of colleges and universities. Contact a counselor, or faculty member at any of the colleges for specific information and to obtain the recommended sequencing of courses.

### WELDING TECHNOLOGY

#### BASIC CERTIFICATE

(C1_WTB1 certificate offered at LSC-CyFair and North Harris)

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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<tr>
<td>WLDG 1421</td>
<td>Intro to Welding Fundamentals</td>
<td>4</td>
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<tr>
<td>WLDG 1428</td>
<td>Intro to Shielded Met. Arc Welding</td>
<td>4</td>
</tr>
<tr>
<td>WLDG 1430</td>
<td>Intro to Gas Metal Arc Welding</td>
<td>4</td>
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<tr>
<td>WLDG 1457</td>
<td>Inter. Shielded Met. Arc Welding</td>
<td>4</td>
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</tbody>
</table>

**TOTAL Credit Hours for Welding Technology Basic Certificate**  16

1 Capstone course

### WELDING TECHNOLOGY

#### INTERMEDIATE CERTIFICATE

(C1_WTI1 certificate offered at LSC-CyFair and North Harris)

<table>
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<td>Intro to Welding Fundamentals</td>
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<td>Intro to Shielded Met. Arc Welding</td>
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<td>Intro to Gas Metal Arc Welding</td>
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<td>WLDG 1457</td>
<td>Inter. Shielded Met. Arc Welding</td>
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<tr>
<td>WLDG 1434</td>
<td>Intro to Gas Tungsten Arc Welding</td>
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**TOTAL Credit Hours for Welding Technology Intermediate Certificate**  28

1 Capstone course

### WELDING TECHNOLOGY

#### ADVANCED CERTIFICATE

(C1_WTA1 certificate offered at LSC-CyFair and North Harris)

#### FIRST YEAR Credit

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<td>Intro to Welding Fundamentals</td>
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<tr>
<td>WLDG 1428</td>
<td>Intro to Shielded Met. Arc Welding</td>
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<td>WLDG 1430</td>
<td>Intro to Gas Metal Arc Welding</td>
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<td>WLDG 1434</td>
<td>Intro to Gas Tungsten Arc Welding</td>
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<tr>
<td>WLDG 1435</td>
<td>Intro to Pipe Welding</td>
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**TOTAL Credit Hours for Welding Technology Advanced Certificate**  40

1 Capstone course

### WELDING TECHNOLOGY

#### SPECIALIZATION

Associate of applied science degree, Tech Prep

(AAS_WELD degree offered at LSC-CyFair and North Harris)

#### FIRST YEAR Credit

<table>
<thead>
<tr>
<th>Course Code</th>
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<td>ENGL 1301</td>
<td>Composition &amp; Rhetoric I</td>
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<td>TECM 1303</td>
<td>Technical Calculations</td>
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<td>WLDG 1421</td>
<td>Intro to Welding Fundamentals</td>
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<td>WLDG 1428</td>
<td>Intro to Shielded Metal Arc Welding</td>
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<td>ITC 1401</td>
<td>Introduction to Computers</td>
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<td>WLDG 1413</td>
<td>Intro to Bldrnt Rdng for Welders</td>
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<td>Intro to Gas Met. Arc Wldg</td>
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<td>Inter. Shielded Met. Arc Wldg</td>
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**Elective**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE</td>
<td>Any physical activity course</td>
<td>1</td>
</tr>
</tbody>
</table>
SECOND YEAR Credit

WLDG  Elective  3-4
SPCH  Elective  3
WLDG  Intro to Pipe Welding I  4
WLDG  Adv. Gas Met. Arc Wldg  4
WLDG  Adv. Gas Tungsten Arc Wldg  Elective 2 Humanities  3
METL  Welding Metallurgy I  4
QCTC  Testing & Inspection Systems  4
WLDG  Advanced Pipe Welding  4
WLDG  Cooperative Education  3

TOTAL Credit Hours for Welding Technology Specialization  70-71

1 Course only offered in spring semester.
2 Choose from the AAS core requirements. Social/behavioral science or humanities elective must also meet multicultural requirement.
3 Electives to be selected from the following: WLDG 1417, NDTE 2311, or QCTC 2331.
4 See AAS degree requirements.
5 A required capstone experience is completed by taking either WLDG 2380 or the AWS Entry-level Welder Certificate Exam.

Note: Students must meet math competency (MATH 0308 or higher)

INSPECTION CERTIFICATE

(C1_INS1 certificate offered at LSC-North Harris)

FIRST YEAR

ITSC  Introduction to Computers  4
NDTE  Liq. Penetrant/Mag. Particle Testing  4
QCTC  Testing and Inspection Systems  4
TECM  Technical Calculations  3
CHEM  Introductory Chemistry  4
ENGL  Composition & Rhetoric I  3
NDTE  Intermediate Ultrasonic Testing  4
QCTC  Standards  3
NDTE  Prep. for Certified Welding Inspector Exam  3
Elective  Social/Behavioral Science  3
Elective  Technical/Academic  3-4
KINE  Any physical activity course  1

SECOND YEAR

ENGL  Technical Communications  3
HUMA  Introduction to the Humanities I  3
METL  Welding Metallurgy I  4
NDTE  Advanced Ultrasonics  4
SPCH  Intro to Speech Communication  3
Elective  Technical/Academic  3-4
NDTE  Film Interpretation of Weldments  3
NDTE  Eddy Current Testing  4
WLDG  Cooperative Education  3

TOTAL Credit Hours for Inspection Technology Specialization  69-71

1 See AAS degree requirements.
2 Elective from any 3-4 credit hour course.
3 Meets multicultural requirement
4 Approved elective to be selected from any WLDG course, any advanced computer course, or PHIL 2306.
5 A required capstone experience is completed by taking either WLDG 2380 or one of the following certification exams awarded by industry:
   • Senior Welding Inspector (American Welding Society)
   • Certified Welding Inspector (AWS)
   • API 510 (American Petroleum Institute)
   • API 570 (API)
   • API 653 (API)
   • Level II or III (ASNT-RP SNT-TC-1A)
   • Radiographic Interpreter (AWS)
   • Penetrant Testing, Magnetic Particle Testing, Ultrasonic Testing (AWS)

Note: Student must meet math competency (MATH 0308 or higher)