

# LAPELS APPROVED COURSE LIST

| INSTITUTION  | COURSE #  | COURSE DESCRIPTION  | CLASSIFICATION | CREDIT           |  |
|--|---|---|----------------|------------------|--|
| BATON ROUGE COMMUNITY COLLEGE  | ENGR1032  | ENGINEERING GRAPHICS                                      | M              | Full             |  |
|  | ENGR207   | SURVEYING   | S              | Full             |  |
|  | ENGR208   | ADVANCED SURVEYING  | S              | Full             |  |
|  | ENGR209   | LOUISIANA SURVEY LAW                                      | R              | Full             |  |
| BOSSIER PARISH COMMUNITY COLLEGE   | CONS210   | CONSTRUCTION SURVEYING & LAB                              | S              | Full             |  |
|  | TEED140   | ENGINEERING GRAPHICS                                      | M              | Partial (1)*     |  |
|  | TEED143   | INTRODUCTORY COMPUTER DRAFTING                            | M              | Partial (1)      |  |
|  | TEED144   | INTERMEDIATE COMPUTER DRAFTING                            | M              | Partial (1)*     |  |
|  | TEED156   | CUSTOMIZING AUTOCAD                                       | M              | Partial (1)      |  |
| *Overlap - A total of 1 semester credit hour will be given for both courses. |   |   |                |                  |  |
| DELGADO COMMUNITY COLLEGE  | CADD110   | CONSTRUCTION GRAPHICS AND BLUEPRINT READING               | M              | Partial (1)      |  |
|  | CADD125   | INTRODUCTION TO DRAFTING                                  | M              | Full             |  |
|  | CADD200   | INTRODUCTION TO PARAMETRIC MODELING                       | M              | Full             |  |
|  | CADD201   | INTRODUCTION TO CADD                                      | M              | Partial (1)      |  |
|  | CADD202   | THREE-DIMENSIONAL APPLICATIONS IN CADD                    | M              | Full             |  |
|  | CADD212   | ARCHITECTURAL DRAWING APPLICATIONS IN CADD                | M              | Partial (2)      |  |
|  | CADD214   | MEP APPLICATIONS IN CADD                                  | M              | Partial (2)      |  |
|  | CADD221   | MECHANICAL APPLICATIONS IN CADD                           | M              | Partial (2)      |  |
|  | CADD231   | STRUCTURAL/CIVIL APPLICATIONS IN CADD                     | M              | Partial (2)      |  |
|  | CADD242   | PIPING APPLICATIONS IN CADD                               | M              | Partial (2)      |  |
|  | CADD245   | SPECIAL TOPICS IN CADD                                    | M              | Partial (2)      |  |
|  | CADD249   | FUNDAMENTALS OF GIS                                       | M              | Full             |  |
|  | CADD250   | ADVANCED 3D MODELING TECHNIQUES                           | M              | Full             |  |
|  | CADD251   | CARTOGRAPHY AND GEOGRAPHY IN GIS AND GPS                  | M              | Full             |  |
|  | CADD252   | GEOGRAPHIC INFORMATION SYSTEM APPLICATIONS                | M              | Full             |  |
|  | CADD253   | WEB-SERVED GEOGRAPHIC INFORMATION SYSTEMS                 | M              | Full             |  |
|  | CIVT100   | ELEMENTARY SURVEYING                                      | S              | Full             |  |
|  | CIVT115   | CIVIL DRAFTING  | M              | Full             |  |
|  | CIVT105   | ADVANCED SURVEYING  | S              | Full             |  |
|  | DRAF125   | DRAFTING I  | M              | Partial (2)      |  |
|  | DRAF144   | PICTORAL DRAWING  | M              | Partial (1)      |  |
|  | DRAF170   | DRAFTING II   | M              | Partial (2)      |  |
|  | DRAF201   | INTRODUCTION TO COMPUTER AIDED DRAFTING                   | M              | Full             |  |
|  | DRAF202   | COMPUTER-AIDED DRAFTING II                                | M              | Full             |  |
|  | DRAF205   | COMPUTER-AIDED DRAFTING III                               | M              | Full             |  |
|  | DRAF221   | MECHANICAL DRAFTING                                       | M              | Partial (2)      |  |
|  | DRAF242   | PIPE DRAFTING   | M              | Partial (2)      |  |
|  | RLST161   | LOUISIANA REAL ESTATE LAW                                 | R              | Full             |  |
|  | RLST261   | PRINCIPLES/REAL ESTATE                                    | R              | Full             |  |
|  | RLST263   | PRINCIPLES OF RESIDENTIAL                                 | R              | Full             |  |
| ITI COLLEGE  | CAD101  | CAD I   | M              | Partial (2)      |  |
|  | CAD132  | CAD II  | M              | Partial (1)      |  |
| LOUISIANA COLLEGE  | EN301   | TECHNICAL WRITING   | M              | Full             |  |
| LA. STATE UNIVERSITY   | CE3500  | PLANE SURVEYING AND MEASUREMENTS                          | S              | *                |  |
|  | CE3600  | PRINCIPLES OF HIGHWAY & TRAFFIC ENGINEERING               | S              | Partial (1) ††   |  |
|  | CE3740  | INDEPENDENT STUDIES IN CIVIL ENGINEERING                  | S/B            | Full             |  |
|  | CE4500  | GEODETC AND PHOTOGRAMMETRIC SURVEYING                     | M              | Full             |  |
|  | CE4520  | ADVANCED SURVEYING  | S              | Full             |  |
|  | CE4530  | CONTROL SURVEYING WITH GPS                                | S              | Full             |  |
|  | CE4550  | BOUNDARY SURVEYING  | S/B            | Full             |  |
|  | CE4560  | ENGINEERING APPLICATIONS TO REMOTE SENSING                | M              | Full             |  |
|  | CE4600  | GEOMETRIC DESIGN OF HIGHWAYS & AIRPORTS                   | S              | Partial (2) ††   |  |
|  | CE4750  | PROFESSIONAL ISSUES & CONCEPT DESIGN IN CIVIL ENGINEERING | S              | Partial (1)      |  |
|  | CM1010  | CONSTRUCTION GRAPHICS & NOMENCLATURE                      | M              | Partial (2)      |  |
|  | CM1020  | ENGINEERING GRAPHICS FOR MECHANICAL ENGINEERS             | M              | Full             |  |
|  | CM1030  | HONORS ENGINEERING GRAPHICS                               | M              | Full             |  |
|  | CM2105  | CONSTRUCTION SURVEYING & LAYOUT                           | S              | *                |  |
|  | CM3100  | CONSTRUCTION SURVEYING & LAYOUT                           | S              | *                |  |
|  | CM4206  | SPECIAL TOPICS IN CONSTRUCTION MANAGEMENT                 | S              | Provide syllabus |  |
|  | EGR1001   | ENGINEERING GRAPHICS                                      | M              | Full             |  |
|  | FIN3351   | PRINCIPLES OF REAL ESTATE                                 | R              | Full             |  |
|  | GEOG2039  | CARTOGRAPHIC DRAFTING AND GRAPHIC PRESENTATION            | M              | Full             |  |
|  | GEOG2040  | GEOSPATIAL TECHNOLOGIES                                   | M              | Partial (2)      |  |
|  | GEOG4019  | AERIAL PHOTO INTERPRETATION-CULTURAL FEATURES             | M              | **               |  |
|  | GEOG4020  | AERIAL PHOTO INTERPRETATION AND IMAGE PROCESSING          | M              | **               |  |
|  | GEOG4040  | COMPUTER CARTOGRAPHY                                      | M              | Full             |  |
|  | GEOG4041  | FIELD METHODS IN PHYSICAL GEOGRAPHY                       | M              | Full             |  |
|  | GEOG4043  | CRIME GIS   | M              | Full             |  |
|  | GEOG4044  | COMPUTER CARTOGRAPHY                                      | M              | Full             |  |
|  | GEOG4045  | ENVIRONMENTAL REMOTE SENSING                              | M              | Partial (1)      |  |
|  | GEOG4047  | GEOGRAPHIC INFORMATION SYSTEMS (SECTION 3)                | M              | Full             |  |
|  | GEOG4049  | ADVANCED COMPUTER CARTOGRAPHY                             | M              | Full             |  |
|  | RNR 2001  | TREES AND WOODY PLANTS OF THE SOUTHEAST                   | M              | Full             |  |
|  | RNR3004   | FOREST PHOTOGRAMMETRY GIS & GPS                           | M              | Full             |  |
|  | *A total of 4 semester credit hours will be given for both courses      |   |                |                  |  |
|  | **A total of 4 semester credit hours will be given for both courses     |   |                |                  |  |
|  | †A total of 4 semester credit hours will be given for both courses      |   |                |                  |  |
|  | ††No credit allowed for these two courses if claiming credit for CE4520 |   |                |                  |  |

# LAPELS APPROVED COURSE LIST

| INSTITUTION               | COURSE #  | COURSE DESCRIPTION                               | CLASSIFICATION             | CREDIT           |             |
|---------------------------|---|--|----------------------------|------------------|-------------|
| LSU ALEXANDRIA            | BUS3201   | BUSINESS LAW I                                   | R                          | Full             |             |
| LA. TECH UNIVERSITY       | BLAW441   | REAL ESTATE LAW                                  | R                          | Full             |             |
|                           | CADD1210  | BASIC COMPUTER AIDED DRAFTING & DESIGN           | M                          | Full             |             |
|                           | CVEN254   | PLANE SURVEYING                                  | S                          | Full             |             |
|                           | CVEN255   | AUTOCAD DRAFTING                                 | M                          | Full*            |             |
|                           | CVEN256   | CONSTRUCTION DATA MODELING                       | M                          | Full             |             |
|                           | CVEN332   | HIGHWAY ENGINEERING                              | S                          | Partial (1)      |             |
|                           | CVEN355   | ADVANCED SURVEYING                               | S                          | Full             |             |
|                           | CVEN357   | ENGINEERING & CONSTRUCTION SURVEYING             | S                          | Full             |             |
|                           | CVEN358   | ENGINEERING & CONSTRUCTION SURVEYING             | S                          | Full             |             |
|                           | CVEN450A  | GIS/GPS SYSTEMS                                  | M                          | Full             |             |
|                           | CVEN456   | LEGAL ASPECTS OF BOUNDARY SURVEYING              | S/B                        | Full             |             |
|                           | CVEN457   | PRACTICAL SURVEYING                              | S                          | Full             |             |
|                           | CVEN492   | CIVIL ENGINEERING DESIGN I                       | S                          | **               |             |
|                           | CVEN493   | CIVIL ENGINEERING DESIGN II                      | S                          | **               |             |
|                           | CVEN494   | CIVIL ENGINEERING DESIGN III                     | S                          | **               |             |
|                           | CVTE255   | CONSTRUCTION ENGINEERING TECHNOLOGY              | M                          | Full*            |             |
|                           | ENGL303   | TECHNICAL WRITING                                | M                          | Full             |             |
|                           | ENGR120   | ENGINEERING PROBLEM SOLVING                      | M                          | Partial (1)      |             |
|                           | ENGR151   | ENGINEERING GRAPHICS & COMPUTER MODELING         | M                          | Full             |             |
|                           | FIN442  | PRINCIPLES OF REAL ESTATE AND LAND USE ECONOMICS | R                          | Partial (1)      |             |
|                           | GIS341  | COMPUTER CARTOGRAPHY                             | M                          | Full             |             |
|                           | GIS350  | INTERMEDIATE GIS                                 | M                          | Full             |             |
|                           | GIS217  | AERIAL PHOTO INTERPRETATION                      | M                          | Full             |             |
|                           | GIS224  | GPS IN NATURAL RESOURCES MGMT                    | M                          | Full             |             |
|                           | GIS250  | INTRODUCTION TO GIS                              | M                          | Full             |             |
|                           | GIS260  | REMOTE SENSING                                   | M                          | Partial (1)      |             |
|                           | INEN415/4508  | COMPUTER AIDED ENGINEERING/AUTOCAD               | M                          | Full             |             |
|                           | *Credit allowed for one or the other - not both           |  |                            |                  |             |
|                           | **To be awarded upon completion of CVEN494 - 1 hour total |  |                            |                  |             |
|                           | ***Need syllabi.  |  |                            |                  |             |
|                           | MCNEESE UNIVERSITY  | CIEN313  | TRANSPORTATION ENGINEERING | S                | Partial (1) |
|                           |   | CIEN310  | ELEMENTARY SURVEYING       | S                | Full        |
| CIEN406                   |   | ADVANCED SURVEYING                               | S                          | Full             |             |
| ENGR101                   |   | ENGINEERING GRAPHICS                             | M                          | Full             |             |
| ENGR491                   |   | SENIOR DESIGN PROJECT II                         | S                          | Partial (1/2 hr) |             |
| GEOG361A                  |   | INTRO TO GEOGRAPHIC INFORMATION SYSTEMS          | M                          | Full             |             |
| NICHOLLS STATE UNIVERSITY | EGSC101   | ENGINEERING GRAPHICS                             | M                          | Full             |             |
|                           | EGSC111   | ENGINEERING GRAPHICS WITH COMPUTER AIDED DRAWING | M                          | Full             |             |
|                           | EGSC222   | GEOVISUALIZATION                                 | M                          | Full             |             |
|                           | EGSC301   | INTRODUCTION TO COMPUTER AIDED DRAWING           | M                          | Full             |             |
|                           | EGSC302   | COMPUTER AIDED SURVEYING DRAWING                 | M                          | Full             |             |
|                           | FIN341  | PRINCIPLES OF REAL ESTATE                        | R                          | Partial (1)      |             |
|                           | FIN441  | REAL ESTATE APPRAISAL                            | R                          | Partial (1)      |             |
|                           | GEOM101   | INTRODUCTION TO GEOMATICS                        | S                          | Full             |             |
|                           | GEOM140   | INTERNSHIP I                                     | S                          | Full             |             |
|                           | GEOM201   | GEOMATICS METHODS I                              | S                          | Full             |             |
|                           | GEOM202   | GEOMATICS METHODS II                             | S                          | Full             |             |
|                           | GEOM203   | GEOMATICS METHODS I LAB                          | S                          | Full             |             |
|                           | GEOM204   | GEOMATICS METHODS II LAB                         | S                          | Full             |             |
|                           | GEOM301   | ROUTE & CONSTRUCTION SURVEYS                     | S                          | Full             |             |
|                           | GEOM303   | ROUTE & CONSTRUCTION SURVEYS LAB                 | S                          | Full             |             |
|                           | GEOM304   | MEASUREMENT SCIENCE                              | S                          | Full             |             |
|                           | GEOM305   | GEODESY & GEODETIC COORDINATES                   | S                          | Full             |             |
|                           | GEOM310   | BOUNDARY CONTROL & LEGAL PRINCIPLES              | S/B                        | Full             |             |
|                           | GEOM311   | GIS THEORY & APPLICATIONS                        | M                          | Full             |             |
|                           | GEOM401   | SUBDIVISION DESIGN & PLATTING                    | S                          | Full             |             |
|                           | GEOM405   | GEODETIC POSITIONING SYSTEMS                     | S                          | Full             |             |
|                           | GEOM410   | SURVEYING & MAPPING PRACTICE                     | S                          | Full             |             |
|                           | GEOM411   | MAPPING BY PHOTOGRAMMETRY & REMOTE SENSING       | M                          | Full             |             |
|                           | LASS220   | REAL ESTATE LAW                                  | R                          | Full             |             |
|                           | SOUTHEASTERN LA. UNIVERSITY                               | CTEC171  | SURVEY PRINCIPLES          | S                | Full        |
|                           |   | DDT114   | TECHNICAL ILLUSTRATION     | M                | Partial (2) |
|                           |   | DDT211   | PIPE DRAFTING              | M                | Full        |
| DDT212                    |   | PARAMETRIC MODELING OF MACHINE PARTS/ASSEMBLIES  | M                          | Full             |             |
| DDT316                    |   | ADVANCED COMPUTER-AIDED DRAFTING AND DESIGN      | M                          | Full             |             |
| IT111                     |   | ENGINEERING DRAFTING                             | M                          | Partial (1)      |             |
| IT112                     |   | DESCRIPTIVE GEOMETRY                             | M                          | Partial (1)      |             |
| IT215                     | COMPUTER AIDED DRAFTING                                   | M  | Full                       |                  |             |

LAPELS APPROVED COURSE LIST

| INSTITUTION  | COURSE #  | COURSE DESCRIPTION                               | CLASSIFICATION                | CREDIT       |  |
|--|---|--|-------------------------------|--------------|--|
| TH HARRIS/ACADIANA TECHNICAL COLLEGE/<br>SOUTH LA. COMMUNITY COLLEGE | CIVL1120  | SURVEYING I LECTURE                              | S                             | Full         |  |
|  | CIVL1121  | SURVEYING I LAB                                  | S                             | Full         |  |
|  | CIVL1140  | BASIC DRAFTING                                   | M                             | Full         |  |
|  | CIVL1141  | BASIC DRAFTING                                   | M                             | Full         |  |
|  | CIVL1220  | SURVEYING II LECTURE                             | S                             | Full         |  |
|  | CIVL1221  | SURVEYING II LAB                                 | S                             | Full         |  |
|  | CIVL1320  | SURVEYING III LECTURE                            | S                             | Full         |  |
|  | CIVL1321  | SURVEYING III LAB                                | S                             | Full         |  |
|  | CIVL1330  | LOUISIANA SURVEY LAW                             | S                             | Full         |  |
|  | CIVL1411  | SURVEYING IV LAB                                 | S                             | Full         |  |
|  | CIVL1413  | SURVEYING IV LECTURE                             | S                             | Full         |  |
|  | CIVL1420  | MAP STUDY (PHOTOGRAMMETRY)                       | M                             | Full         |  |
|  | CIVL1430  | LEGAL PRINCIPLES OF SURVEYING                    | S/B*                          | Full         |  |
|  | CIVL1441  | COMPUTER AIDED DRAFTING                          | M                             | Full         |  |
|  | CIVL1460  | DATA COLLECTION AND PROCESSING                   | S                             | Full         |  |
|  | CIVL1470  | GEOGRAPHIC INFORMATION SYSTEMS                   | M                             | Full         |  |
|  | CIVL1480  | REAL PROPERTY/ LAND DEVELOPMENT                  | R                             | Full         |  |
|  | CIVL2520  | ADVANCED SURVEY PRACTICES                        | S                             | Full         |  |
|  | CIVL2551  | COMPUTER SOFTWARE(SURVEYING APPS)                | M                             | Full         |  |
|  | CIVL2560  | HYDROGRAPHIC SURVEYING                           | S                             | Full         |  |
|  | CIVL2620  | U.S. PUBLIC LAND SURVEYS                         | S/B*                          | Full         |  |
|  | UNIVERSITY OF WYOMING thru Fall 2010  |  |                               |              |  |
|  |   | <b>COURSE</b>                                    | <b>COURSE DESCRIPTION</b>     |              |  |
|  |   | CE2070   | ENGINEERING SURVEYING         |              |  |
|  |   | CE2074   | ETHICS FOR THE PROF. SURVEYOR |              |  |
|  |   | CE2080   | PUBLIC LAND SURVEYS I         |              |  |
|  |   | CE2086   | ADVANCED PUBLIC LAND SURVEYS  |              |  |
|  |   | CE2088   | WRITING LAND DESCRIPTIONS     |              |  |
|  |   | CE3710   | ROUTE SURVEYING               |              |  |
|  | CE3720  | ADVANCED SURVEYING                               |                               |              |  |
|  | CE3740  | LEGAL PRINCIPLES                                 |                               |              |  |
|  | CE3750  | EVIDENCE AND PROCEDURES                          |                               |              |  |
|  | CE4920  | COASTAL WATER BOUNDARIES                         |                               |              |  |
|  | CE4920  | BASIC GEODESY FOR TODAY'S GPS LS                 |                               |              |  |
|  | MGT3340   | REAL ESTATE LAW                                  |                               |              |  |
|  | CIVL2511  | SURVEYING TECHNICAL PRACTICE I                   | S                             | Partial (2)  |  |
|  | CIVL2520  | ADVANCED SURVEY PRACTICES                        | S                             | Full         |  |
|  | CIVL2530  | APPLIED SURVEYING MATH                           | S                             | Full         |  |
|  | CIVL2551  | COMPUTER SOFTWARE (SURVEYING APPS)               | S                             | Full         |  |
|  | CIVL2560  | HYDROGRAPHIC SURVEYING                           | M                             | Full         |  |
|  | CIVL2620  | U.S. PUBLIC LAND SURVEYS                         | S/B*                          | Full         |  |
|  | CIVL2630  | HIGHWAY PLAN READING                             | M                             | Partial (2)  |  |
| *Both required to count as Boundary course                           |   |  |                               |              |  |
| UNIVERSITY OF LA. LAFAYETTE  | BLAW309 or 320  | LA. MINERAL LAW                                  | R                             | Full         |  |
|  | CIVE142   | CIVIL ENGINEERING GRAPHICS                       | M                             | Partial (2)* |  |
|  | CIVE225   | SURVEYING  | S                             | Full         |  |
|  | CIVE442   | SENIOR DESIGN                                    | S                             | Partial (2)  |  |
|  | CIVE450   | HIGHWAY ENGINEERING                              | S                             | Partial (1)  |  |
|  | ENGL365   | TECHNICAL WRITING                                | M                             | Partial (2)  |  |
|  | ENVS455G  | GEOGRAPHIC INFORMATION SCIENCE I                 | M                             | Full         |  |
|  | ENVS464G  | GEOGRAPHIC INFORMATION SCIENCE II                | M                             | Full         |  |
|  | GEOL437/337   | COMPUTER APPLICATIONS IN GEOLOGY                 | M                             | Full         |  |
|  | GIS305  | INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS   | M                             | Full         |  |
|  | ITEC/MCHE103  | INTRODUCTORY GRAPHICS                            | M                             | Full         |  |
|  | ITEC270   | AUTOCAD DRAFTING                                 | M                             | Full*        |  |
|  | *Credit allowed for one or the other - not both - for total of no more than 3 hours |  |                               |              |  |
| UNIVERSITY OF LA. MONROE   | CONS112/113-01  | ARCHITECTURAL DRAFTING                           | M                             | **           |  |
|  | CONS211   | CONSTRUCTION SURVEYING                           | S                             | *            |  |
|  | CONS212   | CONSTRUCTION SURVEYING                           | S                             | *            |  |
|  | CONS355/FCSC355   | COMPUTER AIDED DRAFTING                          | M                             | **           |  |
| *Taught jointly  |   |  |                               |              |  |
| **2 hours allowed for each OR 3 hours for both                       |   |  |                               |              |  |
| UNIVERSITY OF NEW ORLEANS  | ENCE2301  | CIVIL ENGINEERING COMPUTING & GRAPHICS           | M                             | Full         |  |
|  | ENCE2310  | ELEMENTARY SURVEYING MEASUREMENTS                | S                             | Full         |  |
|  | ENCE4097/5097   | CIVIL ENGINEERING GIS APPLICATIONS               | M                             | Full         |  |
|  | ENCE4313/5313   | DRONE APPLICATION AND REMOTE PILOT TRAINING      | M                             | Full         |  |
|  | ENCE4386/5386   | PRINCIPLES OF TRANSPORTATION AND HWY ENGINEERING | S                             | Partial (1)  |  |
|  | ENCE4390  | SENIOR CIVIL ENGINEERING DESIGN PROJECT          | S                             | Full         |  |
|  | ENCW2302/2303   | CIVIL ENGINEERING COMPUTER & GRAPHICS            | M                             | Full         |  |
|  | ENME1781  | INTRODUCTION TO ENGINEERING DESIGN AND GRAPHICS  | M                             | Full         |  |
|  | FIN2335   | PRINCIPLES OF REAL ESTATE                        | R                             | Partial (1)  |  |
|  | GEOG4805/5805   | FUNDAMENTALS OF MAPPING                          | M                             | Full         |  |
|  | GEOG4810/5810   | REMOTE SENSING I                                 | M                             | Partial (1)  |  |
|  | GEOG4820/5820   | REMOTE SENSING II                                | M                             | Partial (1)  |  |
|  | GEOG4830/5830   | GIS THEORIES & CONCEPTS                          | M                             | Full         |  |

# LAPELS APPROVED COURSE LIST

Updated July 2023

| INSTITUTION   | COURSE #                            | COURSE DESCRIPTION                                       | CLASSIFICATION                        | CREDIT      |
|---|-------------------------------------|--|---------------------------------------|-------------|
| UNIVERSITY OF AKRON                                       | 2880:230                            | COMPUTER AIDED DRAWING II                                | M                                     | Partial (2) |
|   | 2940:170                            | SURVEYING DRAFTING                                       | M                                     | Full        |
|   | 2980:100                            | INTRODUCTION TO GEOMATICS                                | M                                     | Full        |
|   | 2980:101                            | BASIC SURVEYING I  | S                                     | Full        |
|   | 2980:102                            | BASIC SURVEYING II                                       | S                                     | Full        |
|   | 2980:222                            | CONSTRUCTION SURVEYING                                   | S                                     | Full        |
|   | 2980:223                            | FUNDAMENTALS OF MAP PRODUCTION                           | M                                     | Full        |
|   | 2980:225                            | ADVANCED SURVEYING                                       | S                                     | Full        |
|   | 2980:228                            | BOUNDARY SURVEYING                                       | S/B                                   | Full        |
|   | 2980:310                            | SURVEYING COMPUTATIONS & ADJUSTMENTS                     | S                                     | Full        |
|   | 2980:315                            | BOUNDARY CONTROL & LEGAL PRINCIPLES                      | S/B                                   | Full        |
|   | 2980:355                            | COMPUTER APPLICATIONS IN SURVEYING                       | M                                     | Partial (2) |
|   | 2980:415                            | LEGAL ASPECTS OF SURVEYING                               | RP                                    | Full        |
|   | 2980:420                            | ROUTE SURVEYING  | S                                     | Full        |
|   | 2980:421                            | SUBDIVISION DESIGN                                       | S                                     | Partial (1) |
|   | 2980:422                            | GPS SURVEYING  | S                                     | Partial (2) |
|   | 2980:425                            | LAND NAVIGATION  | M                                     | Full        |
|   | 2980:445                            | APPLICATIONS IN GIS USING GPS                            | M                                     | Full        |
|   | 2985:101                            | INTRO TO GEOGRAPHIC & LAND INFORMATION SYSTEMS (GIS/LIS) | M                                     | Full        |
|   | UNIVERSITY OF ARKANSAS FAYETTEVILLE | ANTH/GEOG4553  | INTRODUCTION TO RASTER GIS (RASTER 1) | M           |
| ANTH/GEOG4563   |                                     | VECTOR GIS   | M                                     | Full        |
| ANTH/GEOG4563 & ENDY5043                                  |                                     | RASTER II: ADVANCED RASTER GIS/SPATIAL MODELING          | M                                     | Full        |
| CVEG2053  |                                     | SURVEYING SYSTEMS  | S                                     | Full        |
| CVEG2051L   |                                     | SURVEYING SYSTEMS LABORATORY                             | S                                     | Full        |
| CVEG4053  |                                     | LAND SURVEYING   | S                                     | Full        |
| GEOG/ANTH4593   |                                     | INTRODUCTION TO THE GLOBAL POSITIONING SYSTEM            | S                                     | Full        |
| GEOGL5423   |                                     | REMOTE SENSING OF NATURAL RESOURCES                      | M                                     | Full        |
| UNIVERSITY OF ARKANSAS MONTICELLO                         | SIS1001                             | INTRO TO SPATIAL INFORMATION SYSTEMS                     | S                                     | Full        |
|   | SIS2014                             | BOUNDARY SURVEYING                                       | S/B                                   | Full        |
|   | SIS2023                             | COMPUTER ASSISTED CARTOGRAPHY                            | M                                     | Partial (2) |
|   | SIS2114                             | PLANE SURVEYING I  | S                                     | Partial (3) |
|   | SIS3153                             | SURVEY PLATS & DEEDS                                     | S                                     | Full        |
|   | SIS3264                             | ROUTE & CONSTRUCTION SURVEYING                           | S                                     | Full        |
|   | SIS3814                             | INTRO TO GIS, GPS & REMOTE SENSING                       | M                                     | Full*       |
|   | SIS3843                             | ADVANCED GIS   | M                                     | Full*       |
|   | SIS3923                             | REMOTE SENSING   | M                                     | Full        |
|   | SIS4183                             | MAPPING LAW & PROFESSIONALISM                            | R                                     | Full        |
|   | SIS4193                             | ADVANCED GLOBAL POSITIONING SYSTEMS                      | S                                     | Full        |
|   | SIS4454                             | PLANE SURVEYING II                                       | S                                     | Full        |
| *Credit allowed for one or the other (not both)           |                                     |  |                                       |             |
| AUSTIN COMMUNITY COLLEGE                                  | RELE1309                            | REAL ESTATE LAW  | R                                     | Full        |
| CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO  | BRAE133                             | ENGINEERING DESIGN GRAPHICS                              | M                                     | Full        |
|   | BRAE151                             | CAD FOR AGRICULTURAL ENGINEERING                         | M                                     | Full        |
|   | BRAE239                             | ENGINEERING SURVEYING                                    | S                                     | Full        |
|   | BRAE345                             | AERIAL PHOTOGRAMMETRY AND REMOTE SENSING                 | M                                     | Full        |
|   | BRAE447                             | ADVANCED SURVEYING WITH GIS APPLICATIONS                 | S                                     | Full        |
|   | FNR215                              | LAND AND RESOURCE MEASUREMENTS                           | S                                     | Full        |
|   | FNR247                              | FOREST SURVEYING   | S                                     | Full        |
|   | FNR318                              | APPLICATIONS IN GIS                                      | M                                     | Full        |
|   | NR418                               | APPLIED GIS  | M                                     | Full        |
|   | UNIVERSITY CALIFORNIA SAN DIEGO     | GIS2   | SPATIAL ANALYSIS                      | M           |
| COLLEGE OF THE CANYONS                                    | SURV101                             | INTRO TO LAND SURVEYING                                  | S                                     | Full        |
|   | SURV102                             | ADVANCED LAND SURVEYING                                  | S                                     | Full        |
|   | SURV103                             | ADV APPLICATIONS IN SURVEYING I                          | S                                     | Full        |
|   | SURV104                             | ADV APPLICATIONS IN SURVEYING II                         | S                                     | Full        |
|   | SURV105                             | BOUNDRY CONTROL & LGL PRNCL I                            | S/B                                   | Full        |
|   | SURV106                             | BOUNDRY CONTROL & LGL PRNCL II                           | B                                     | Full        |
|   | SURV107                             | CONSTRUCTION SURVEYING                                   | S                                     | Full        |
|   | SURV110                             | COMPT AIDED DRFT FOR SURVEYORS                           | M                                     | Full        |
| CINCINNATI STATE  | CET250                              | ROUTE LOCATION & DESIGN                                  | S                                     | Full        |
|   | CET251                              | ELEMENTS OF LAND SURVEY I                                | S                                     | Full        |
|   | CET252*                             | ELEMENTS OF LAND SURVEY II                               | B                                     | Full        |
|   | CET260                              | CONTROL SURVEYING  | S                                     | Full        |
|   | CET267                              | SURVEYING LAWS, ETHICS, & HISTORY                        | S                                     | Full        |
|   | CET277                              | SURVEYING CALCULATIONS                                   | S                                     | Full        |
| *Must take both CET251 and CET252 to get Boundary credit. |                                     |  |                                       |             |
| CLEMSON UNIVERSITY  | CE2550                              | GEOMATICS  | M                                     | Partial (1) |
|   | CE3110                              | TRANSPORTATION ENGR                                      | S                                     | Partial (1) |
|   | CE3530                              | PROFESSIONAL SEMINAR                                     | S                                     | Full        |
|   | CE4110                              | ROADWAY GEO DESIGN                                       | S                                     | Partial (1) |
|   | CE4590                              | CAPSTONE DESIGN PROJ                                     | S                                     | Partial (1) |
|   | CE51020                             | ENG DISCIP & SKILLS                                      | M                                     | Partial (1) |
|   | EG2080                              | ENGR GR & DESIGN   | M                                     | Partial (2) |
|   | ENGR1410                            | PROG/PROB SOLV   | M                                     | Partial (1) |

# LAPELS APPROVED COURSE LIST

| INSTITUTION   | COURSE #                             | COURSE DESCRIPTION                           | CLASSIFICATION           | CREDIT      |
|---|--------------------------------------|--|--------------------------|-------------|
| COPIAH-LINCOLN COMMUNITY COLLEGE  | DDT1114                              | FUNDAMENTALS OF DRAFTING                     | M                        | *           |
|   | DDT1313                              | PRINCIPLES OF CAD                            | M                        | *           |
|   | DDT1323                              | INTERMEDIATE CAD                             | M                        | **          |
|   | DDT1413                              | ELEMENTARY SURVEYING                         | S                        | Full        |
|   | DDT2343                              | ADVANCED CAD                                 | M                        | **          |
| *Credit allowed for only 1 of these courses<br>**Credit allowed for only 1 of these courses |                                      |  |                          |             |
| UNIVERSITY OF CENTRAL ARKANSAS  | GEOG3303                             | INTRODUCTION TO GIS                          | M                        | Full        |
|   | GEOG3306                             | REMOTE SENSING & IMAGE INTERPRETATION        | M                        | Partial (1) |
| EVERGLADE UNIVERSITY  | BCN200                               | INTRODUCTION TO SURVEYING LEGAL ENVIRONMENT  | S                        | Full        |
|   | SUR331                               | ROUTE SURVEYING                              | S                        | Full        |
|   | SUR341                               | LAND TENURE AND LEGAL CONSIDERATIONS         | B                        | Full        |
|   | SUR386                               | INSTRUMENTATION IN SURVEYING                 | S                        | Partial (2) |
|   | SUR446                               | GEONFORMATICS GPS REMOTE SENSING             | M                        | Full        |
|   | SUR455                               | LAND SURVEYING AND MAPPING                   | M                        | Partial (2) |
|   | SUR463                               | GPS SURVEYING                                | S                        | Full        |
|   | SUR4900                              | SURVEYING STANDARDS AND SPECIFICATIONS       | S                        | Full        |
| FERRIS STATE UNIVERSITY   | SUR1000                              | FUNDAMENTALS OF SURVEYING                    | S                        | Partial (1) |
|   | CENG220                              | ENGINEERING SURVEYING                        | S                        | Full        |
|   | GISC225                              | PRINCIPLES OF GIS                            | M                        | Full        |
|   | GISC239                              | REMOTE SENSING                               | M                        | Full        |
|   | SURE110                              | FUNDAMENTALS OF SURVEYING                    | S                        | Full        |
|   | SURE115                              | INTRO TO COMPUTER MAPPING                    | M                        | Full        |
|   | SURE230                              | ADVANCED SURVEYING                           | S                        | Full        |
|   | SURE340                              | PHOTOGRAMMETRY I                             | M                        | Full        |
|   | SURE365                              | LEGAL ASPECTS OF SURVEYING I                 | S                        | Full        |
|   | SURE366                              | EVIDENCE & PROCEDURES FOR BOUNDARY LOCATION  | S/B                      | Full        |
|   | SURE372                              | ADJUSTMENT COMPUTATIONS 1                    | S                        | Full        |
|   | SURE373                              | ADJUSTMENT COMPUTATIONS 2                    | S                        | Full        |
|   | SURE440                              | ADVANCED PHOTOGRAMMETRY                      | M                        | Full        |
|   | SURE452                              | GEODESY I                                    | M                        | Full        |
|   | SURE453                              | GEODESY II                                   | S                        | Full        |
|   | SURE465                              | LEGAL ASPECTS OF SURVEYING II                | RP                       | Full        |
|   | FLORIDA STATE COLLEGE - JACKSONVILLE | ENC2210                                      | TECHNICAL REPORT WRITING | M           |
| UNIVERSITY OF FLORIDA   | GIS4123/6116                         | GEOSPATIAL/GIS ANALYSIS                      | M                        | Full        |
|   | REE3043                              | REAL ESTATE ANALYSIS                         | R                        | Full*       |
|   | SUR2101                              | GEOMATICS                                    | S                        | Full        |
|   | SUR3103C                             | GEOMATICS (elementary)                       | S                        | Full        |
|   | SUR3323                              | VISUALIZATION OF SPATIAL INFORMATION         | M                        | Full        |
|   | SUR3331                              | PHOTOGRAMMETRY                               | M                        | Full        |
|   | SUR3393/3393L                        | GEOGRAPHIC INFORMATION SYSTEMS               | M                        | Full        |
|   | SUR3501                              | GEODETIC & CONTROL SURVEYING                 | S                        | Full        |
|   | SUR3520/5525                         | MEASUREMENT SCIENCE LEAST SQUARES ADJUSTMENT | S                        | Full        |
|   | SUR3641                              | SURVEYING COMPUTATIONS                       | S                        | Full        |
|   | SUR4201                              | ROUTE GEOMETRICS AND DESIGN                  | S                        | Full        |
|   | SUR4350                              | ADVANCED PHOTOGRAMMETRY                      | M                        | Full        |
|   | SUR4380                              | REMOTE SENSING                               | M                        | Full        |
|   | SUR4403                              | CADASTRAL PRINCIPLES                         | S or R                   | Full        |
|   | SUR4430                              | SURVEYING AND MAPPING PRACTICE               | S/B                      | Full        |
|   | SUR4463                              | SUBDIVISION DESIGN                           | S                        | Full        |
|   | SUR4530                              | GEODESY                                      | M                        | Full        |
|   | SURV4530/6536                        | GEODESY AND GEODETIC POSITIONING             | S                        | Full        |
|   | SUR4905                              | HYDROGRAPHIC SURVEYING                       | S                        | Full        |
|   | SUR4912                              | SENIOR PROJECT - SPRING 2010                 | S                        | Full        |
|   | SUR4934/6934                         | MARINE GEOMATICS                             | S                        | Full        |
|   | SUR5365                              | DIGITAL MAPPING                              | M                        | Full        |
|   | SUR5386                              | IMAGE PROCESSING FOR REMOTE SENSING          | M                        | Full        |
| SUR5625   | GIS ANALYSIS                         | M  | Full                     |             |
| SUR6905   | HIGH RESOLUTION IMAGE ANALYSIS       | M  | Full                     |             |
| *Approved only as part of Geomatics degree  |                                      |  |                          |             |
| GEORGIA TECH  | CE1770                               | INTRO TO ENGINEERING GRAPHICS                | M                        | Full        |
| GREAT BASIN COLLEGE   | CADD121                              | CAD FOR LAND SURVEYORS                       | M                        | Full        |
|   | SUR280                               | FUNDAMENTALS OF GEOMATICS I                  | S                        | Full        |
|   | SUR281                               | FUNDAMENTALS OF GEOMATICS II                 | S                        | Full        |
|   | SUR290                               | INTRO TO URBAN DEVELOPMENT                   | S                        | Partial (2) |
|   | SUR320                               | GIS FOR SURVEYORS                            | M                        | Full        |
|   | SUR330                               | INTRO TO LEAST SQUARES ADJUSTMENT            | S                        | Full        |
|   | SUR340                               | PHOTOGRAMMETRY & REMOTE SENSING              | M                        | Full        |
|   | SUR360                               | PUBLIC LAND SURVEY SYSTEM                    | S/B                      | Full        |
|   | SUR365                               | LAND DESCRIPTIONS                            | RP                       | Full        |
|   | SUR440                               | GEODETIC & GPS SURVEYING                     | S                        | Full        |
|   | SUR450                               | CONSTRUCTION SURVEYING                       | S                        | Full        |
|   | SUR460                               | ADVANCED BOUNDARY ANALYSIS                   | S/B                      | Full        |
|   | SUR495                               | LAND SURVEYING / GEOMATICS CAPSTONE          | S                        | Full        |
| HAMLINE UNIVERSITY  | LAW9141                              | PROPERTY I                                   | R                        | Full        |
|   | LAW9517                              | MODERN REAL ESTATE TRANSACTIONS              | R                        | Full        |
| HINDS COMMUNITY COLLEGE   | DDT1413                              | ELEMENTARY SURVEYING                         | S                        | Full        |
|   | DDT2433                              | LEGAL PRINCIPLES OF SURVEYING                | S                        | Full        |
|   | DDT2443                              | ADVANCED SURVEYING                           | S/B                      | Full        |
|   | MMT2723                              | REAL ESTATE LAW                              | R                        | Full        |
| HOUSTON COMMUNITY COLLEGE   | REL1309                              | REAL ESTATE LAW                              | R                        | Full        |

# LAPELS APPROVED COURSE LIST

Updated July 2023

| INSTITUTION                             | COURSE #                        | COURSE DESCRIPTION                             | CLASSIFICATION    | CREDIT      |
|---|---------------------------------|--|-------------------|-------------|
| UNIVERSITY OF HOUSTON                   | CIVT3364                        | COMPUTER APPLICATIONS IN SURVEYING             | S                 | Full        |
|   | CIVT3365                        | SITE DEVELOPMENT                               | M                 | Full        |
|   | CIVT3367                        | PHOTOGRAMMETRY                                 | M                 | Full        |
|   | CIVT3368                        | LEGAL ASPECTS OF SURVEYING I                   | S                 | Full        |
|   | CIVT3369                        | LAND INFORMATION SYSTEMS                       | R                 | Full        |
|   | CIVT4362                        | GEODESY  | S                 | Full        |
|   | CNST1330                        | GRAPHIC I (LEC & LAB)                          | M                 | Partial (2) |
|   | CNST4265                        | SITE DEVELOPMENT                               | S                 | Partia (2)  |
|   | MECT3341                        | COMPUTER-AIDED DRAFTING I                      | M                 | Full        |
|   | SURY2361                        | SURVEYING I                                    | S                 | Full        |
|   | SURY2371                        | GLOBAL POSITIONING SYSTEMS                     | S                 | Full        |
|   | SURY2372                        | GEOGRAPHICAL INFORMATION SYSTEM (GIS)          | M                 | Full        |
|   | SURY3342                        | COMPUTER AIDED SURVEYING                       | M                 | Full        |
|   | SURY3363                        | SURVEYING III                                  | S                 | Full        |
|   | SURY3373                        | SUBDIVISION PLANNING & DESIGN                  | S/B               | Full        |
|   | SURY3462                        | SURVEYING II                                   | S                 | Full        |
|   | SURY4361                        | SURVEYING PRACTICUM                            | S                 | Full        |
|   | SURY4363                        | LEGAL ASPECT OF SURVEYING                      | S/B               | Full        |
|   | SURY4364                        | SURVEYING IV                                   | S/B               | Full        |
|   | SURY4369                        | SURVEY ANALYSES                                | S/B or R          | Full        |
| SURY4398                                | SPECIAL PROBLEMS IN SURVEYING   | S  | Full              |             |
| SURY4170                                | ETHIC IN PROFESSIONAL SURVEYING | S  | Partial (1)       |             |
| IDAHO STATE UNIVERSITY                  | CET1122                         | INTERMEDIATE SURVEYING AND SPATIAL ANALYSIS    | S                 | Full        |
|   | GEMT3310                        | BOUNDARY CONTROL AND LEGAL PRINCIPLES          | S/B               | Full        |
|   | GEMT3319                        | WRITING LEGAL DESCRIPTIONS                     | R                 | Full        |
|   | GEMT4411                        | GEODESY  | S                 | Full        |
|   | GEMT4430                        | DPS PRINCIPLES AND APPLICATIONS                | S/M               | Full        |
| UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN | CE201                           | ENGINEERING SURVEYING                          | S                 | Full        |
|   | CE205                           | ROUTE SURVEYING                                | S                 | Full        |
|   | GE103                           | ENGINEERING GRAPHICS & DESIGN                  | M                 | Full        |
|   | GEOG377                         | INTRODUCTION TO REMOTE SENSING                 | M                 | Full        |
| INDIAN RIVER STATE COLLEGE              | ETD1320                         | INTRODUCTION TO AUTOCAD                        | M                 | Partial (2) |
|   | ETD2340                         | AUTOCAD LEVEL II                               | M                 | Full        |
|   | SUR1101                         | BASIC SURVEYING & MAPPING                      | S                 | Full        |
|   | SUR2400                         | LEGAL ASPECTS OF LAND SURVEYING                | S/B               | Full        |
|   | SUR2402                         | LEGAL DESCRIPTIONS                             | S                 | Full        |
|   | SUR2600                         | SURVEYING II                                   | S                 | Full        |
| IVY TECH COMMUNITY COLLEGE              | DCT102                          | CAD FUNDAMENTALS                               | M                 | Full        |
|   | DCT107                          | AG APPLICATIONS OF GIS SYSTEMS                 | M                 | Full        |
|   | DCT292                          | CAD MAPPING                                    | M                 | Full        |
| JOHNSON COUNTY COMMUNITY COLLEGE        | ENGR131                         | ENGINEERING GRAPICS I                          | M                 | Full        |
| LAKE SUPERIOR COLLEGE                   | CADE1407                        | ENGINEERING CAD                                | M                 | Partial (3) |
|   | CETT1405                        | FUNDAMENTALS OF SURVEYING                      | S                 | Full        |
|   | CETT1420                        | ROUTE SURVEY                                   | S                 | Full        |
|   | CETT1430                        | CIVIL CAD APPLICATIONS                         | M                 | Partial (3) |
|   | CETT2400                        | INTERMEDIATE SURVEY                            | S                 | Full        |
|   | CETT2420                        | LAND SURVEY SYSTEMS                            | S                 | Full        |
|   | CETT2460                        | ADVANCED SURVEY                                | S                 | Full        |
| LAMAR UNIVERSITY                        | ENGL3310                        | TECHNICAL WRITING                              | M                 | Full        |
| LONE STAR COLLEGE (ALL CAMPUSES)        | SRVY1301                        | INTRODUCTION TO SURVEYING                      | S                 | Full        |
|   | SRVY1313                        | PLANE SURVEYING                                | S                 | Full        |
|   | SRVY1315                        | SURVEY CALCULATIONS I                          | S                 | Full        |
|   | SRVY1319                        | INTRODUCTION TO GIS                            | M                 | Full        |
|   | SRVY1334                        | LAND SURVEYING APPLICATIONS                    | S                 | Full        |
|   | SRVY1342                        | GPS TECHNIQUES FOR SURVEYING & MAPPING W/LAB   | S                 | Full        |
|   | SRVY1349                        | SURVEYING CALCULATIONS II                      | S                 | Full        |
|   | SRVY1441                        | LAND SURVEYING W/LAB                           | S                 | Full        |
|   | SRVY2309                        | COMPUTER AIDED MAPPING                         | M                 | Full        |
|   | SRVY2313                        | CONTROL SURVEYING                              | S                 | Full        |
|   | SRVY2343                        | LEGAL PRINCIPALS I                             | S/B               | Full        |
|   | SRVY2344                        | LEGAL PRINCIPALS II                            | R                 | Full        |
|   | UNIVERSITY OF MAINE             | SIE509   | PRINCIPLES OF GIS | M           |
| SVT121                                  |                                 | AUTOCAD FOR SURVEYORS I                        | M                 | Full        |
| SVT202                                  |                                 | ROUTE AND SITE SURVEYING                       | S                 | Full        |
| SVT221                                  |                                 | BOUNDARY LAW                                   | R                 | Full        |
| SVT322                                  |                                 | PREPARING EFFECTIVE PROPERTY DESCRIPTIONS      | R                 | Full        |
| SVT331                                  |                                 | PHOTOGRAMMETRY                                 | M                 | Full        |
| SVT341                                  |                                 | ADVANCED SURVEYING                             | S                 | Full        |
| SVT352                                  |                                 | PRACTICAL FIELD OPERATIONS                     | S                 | Full        |
| SVT437                                  |                                 | PRACTICAL GPS                                  | S                 | Full        |
| SVT511                                  |                                 | GEODETTIC U.S. PUBLIC LAND SURVEY COMPUTATIONS | S                 | Full        |
| SVT531                                  |                                 | ADVANCED DIGITAL PHOTOGRAMMETRY                | M                 | Full        |
| SVT532                                  |                                 | SURVEY STRAGETIES IN USE OF LIDAR              | M                 | Full        |
| SVT541                                  |                                 | GEODESY  | S                 | Full        |

# LAPELS APPROVED COURSE LIST

| INSTITUTION   | COURSE #   | COURSE DESCRIPTION                                     | CLASSIFICATION | CREDIT      |
|---|--|--|----------------|-------------|
| METROPOLITAN COMMUNITY COLLEGE                          | SRVY135  | ELEMENTARY SURVEYING                                   | S              | Full        |
|   | SRVY137  | SUBDIVISION PLANNING & LAYOUT                          | S              | Full        |
|   | SRVY236  | LEGAL ASPECTS OF SURVEYING                             | R              | Full        |
|   | SRVY237  | LAND SURVEYING   | R              | Full        |
| METROPOLITAN STATE COLLEGE OF DENVER                    | COM390F  | TECHNICAL WRITING FOR SURVEYING AND MAPPING            | M              | Full        |
|   | SUR2520  | SURVEYING II   | S              | Full        |
|   | SUR2550  | SURVEYING COMPUTATIONS                                 | S              | Full        |
|   | SUR3100  | SURVEY DATA ADJUSTMENT AND ANALYSIS I                  | S              | Full        |
|   | SUR3220  | REAL PROPERTY DESCRIPTIONS                             | R              | Full        |
|   | SUR3300  | PHOTOGRAMMETRY   | M              | Full        |
|   | SUR3540  | BOUNDARY LAW I   | S/B            | Full        |
|   | SUR3700  | GEODESY I  | S              | Full        |
|   | SUR4540  | BOUNDARY LAW II  | S/B            | Full        |
| MICHIGAN STATE UNIVERSITY                               | IDES240  | AUTOCAD: A TASK BASED APPROACH                         | M              | Partial (2) |
| MIDDLE GEORGIA COLLEGE                                  | ENGR2503   | SURVEYING LAWS   | R              | Full        |
| MISSISSIPPI GULF COAST COMM. COLLEGE                    | BAD2713  | PRINCIPLES OF REAL ESTATE                              | R              | *           |
|   | BAD2723  | REAL ESTATE LAW  | R              | *           |
| *3 hours total allowed for both courses together        |  |  |                |             |
| MISSISSIPPI STATE UNIVERSITY                            | ABE2873  | LAND SURVEYING   | S              | Full*       |
|   | ABE3513  | GPS & GIS IN AGRICULTURE & ENGINEERING                 | M              | Full**      |
|   | ABE4990  | SPECIAL TOPIC IN ABE - CAPSTONE SURVEYING              | S              | Full        |
|   | BL4253/6253  | REAL ESTATE LAW  | R              | Full        |
|   | BL4333   | REAL ESTATE LAW  | R              | Full        |
|   | CE2213   | SURVEYING  | S              | Full*       |
|   | CE3113   | TRANSPORTATION ENGINEERING (formerly CE3123 Hwy. Eng.) | S              | Partial (1) |
|   | CE4233   | CONTROL SURVEYS  | S              | Full        |
|   | CE4243   | LAND SURVEYING   | S/B            | Full        |
|   | EG1143   | GRAPHIC COMM. (formerly EG1123 Eng. Graphics)          | M              | Full        |
|   | FO4453/6453  | REMOTE SENSING APPLICATIONS                            | M              | Full        |
|   | FO4472/6472  | GIS FOR NATURAL RESOURCE MANAGEMENT                    | M              | Full**      |
|   | GR2313   | INTRODUCTION TO MAPS & REMOTE SENSING                  | M              | Full        |
|   | GR3303   | SURVEY OF GEOSPATIAL TECHNIQUES                        | M              | Full        |
|   | GR4303/6303  | PRINCIPLES OF GIS                                      | M              | Full        |
|   | GR4313/6313  | ADVANCED GIS   | M              | Full        |
|   | GR4323-6323  | CARTOGRAPHIC SCIENCES                                  | M              | Full        |
|   | REF3333  | PRINCIPLES OF REAL ESTATE                              | R              | Partial (1) |
| REF4433   | REAL PROPERTY EVALUATION                             | R  | Partial (1)    |             |
| WF4253/6253   | APPLICATION OF SPATIAL TECHNOLOGIES TO WF MANAGEMENT | M  | Full           |             |
| *These 2 courses overlap / **These 2 courses overlap    |  |  |                |             |
| THE UNIVERSITY OF MISSISSIPPI                           | FIN351   | PRINCIPLES OF REAL ESTATE                              | R              | Full        |
| MOOREPARK UNIVERSITY                                    | GISM01   | Intro to Mapping & GIS                                 | M              | Full        |
| MURRAY STATE UNIVERSITY                                 | CET280   | PLANE SURVEYING  | S              | Full        |
|   | CET370   | INTERMEDIATE SURVEYING                                 | S              | Full        |
|   | CET381   | ADVANCED SURVEYING                                     | S(2), B(1)     | Full        |
| NETTLEMAN INSTITUTE OF SURVEYING ENGINEERING TECHNOLOGY | SUR101   | INTRODUCTION TO SURVEYING                              | S              | Full        |
|   | SUR111   | PLANE SURVEYING  | S              | Full        |
|   | SUR112   | DIGITAL DRAFTING                                       | M              | Full        |
|   | SUR114   | PHOTOGRAMMETRY & REMOTE SENSING                        | M              | Full        |
|   | SUR121   | SURVEY MEASUREMENTS & ADJUSTMENTS                      | S              | Full        |
|   | SUR213   | FIELD CAMP   | S              | Full        |
|   | SUR215   | PUBLIC LAND SURVEY SYSTEM                              | S              | Full        |
|   | SUR216   | INTERNSHIP   | S              | Full        |
|   | SUR222   | LAND SUBDIVISION DESIGN                                | S or M         | Full*       |
|   | SUR223   | GEODESY  | S or M         | Full*       |
|   | SUR224   | LEGAL ASPECTS OF SURVEYING                             | B              | Full        |
|   | SUR225   | CONSTRUCTION SURVEYING                                 | S              | Full        |
|   | SUR227   | SURVEYING ELECTIVE                                     | S              | Full        |
|   | SUR228   | BOUNDARY & CADASTRAL LAND PRACTICES                    | B              | Full        |
|   | SUR401   | CAPSTONE   | S              | Full        |
|   | *Credit given for S or M. Cannot be split.           |  |                |             |
| NEW JERSEY INSTITUTE OF TECHNOLOGY                      | SET200   | INTRODUCTION TO GEOMATICS                              | S              | Full        |
|   | SET207   | EVIDENCE & PROCEDURES FOR PROPERTY SURVEYING           | RP             | Full        |
|   | SET280   | MARINE SURVEYING                                       | S              | Full        |
|   | SET301   | ROUTE SURVEYING  | S              | Full        |
|   | SET302   | GEODETTIC CONTROL SURVEYING                            | S              | Full        |
|   | SET303   | PHOTOGRAMMETRY & AERIAL PHOTO INTERPRETATION           | M              | Full        |
|   | SET401   | FUNDAMENTALS OF GEODESY                                | S              | Full        |
|   | SET403   | REMOTE SENSING PRINCIPLES FOR GEOMATICS                | M              | Full        |
|   | SET407   | BOUNDARY LINE ANALYSIS                                 | B              | Full        |
|   | SET420   | GEOGRAPHIC/LAND INFORMATION SYSTEMS                    | M              | Full        |
| SET440  | LAND DEVELOPMENT                                     | S  | Full           |             |
| NORTH LAKE COLLEGE                                      | RELE1309   | TEXAS REAL ESTATE LAW                                  | R              | Full        |

# LAPELS APPROVED COURSE LIST

Updated July 2023

| INSTITUTION                                   | COURSE #            | COURSE DESCRIPTION                      | CLASSIFICATION | CREDIT      |
|---|---------------------|---|----------------|-------------|
| OKLAHOMA STATE UNIVERSITY                     | SURV1133            | FUNDAMENTALS OF GIS                     | M              | Full        |
|   | CSUR2614            | SURVEYING I                             | S              | Full        |
|   | SURV2232            | ROUTE SURVEYING                         | S              | Full        |
|   | SURV2233            | CIVIL DRAFTING I                        | M              | Full        |
|   | SURV2242            | RESIDENTIAL SUBDIVISION DESIGN          | S              | Full        |
|   | SURV2423            | PHOTOGRAMMETRY                          | M              | Full        |
|   | SURV2623            | LEGAL PRINCIPLES OF SURVEYING I         | R              | Full        |
|   | SURV2633            | LEGAL PRINCIPLES OF SURVEYING II        | S/B            | Full        |
|   | SURV2643            | ADVANCED SURVEYING                      | S              | Full        |
|   | SURV2734            | APPLIED SURVEY COMPUTATIONS             | S              | Partial (3) |
| SURV27343                                     | FUNDAMENTALS OF GPS | S                                       | Full           |             |
| PARKLAND COLLEGE                              | CAD116              | ADVANCED MICROSTATION CAD               | M              | Full        |
|   | CAD124              | INTRODUCTION TO AUTOCAD                 | M              | Full        |
|   | CIT113              | SURVEYING I                             | S              | Full        |
|   | CIT132              | SURVEYING COMP & LAYOUT                 | S              | Full        |
|   | CIT211              | SURVEYING II                            | S              | Full        |
|   | CIT234              | ENGINEERING SURVEYING TECHNIQUES        | S              | Full        |
|   | CIT235              | CONTROL SURVEY TECHNIQUES               | S              | Full        |
|   | CIT251              | BOUNDARY SURVEY TECHNIQUES              | S/B            | Full        |
|   | CIT252              | ADVANCED SURVEY TECHNIQUES              | S              | Full        |
|   | GIS119              | INTRODUCTION TO GEOGRAPHIC              | M              | Full        |
| UNIVERSITY OF PUERTO RICO MAYAGUEZ            | INCI4001            | SURVEYING I                             | S              | Full        |
|   | INCI4002            | SURVEYING II                            | S              | Full        |
|   | INCI4018            | SUMMER SURVEYING CAMP                   | S              | Full        |
|   | INCI4051            | GEODESY I                               | S              | Partial (2) |
|   | INCI4059            | GEODETTIC ASTRONOMY                     | S              | Full        |
|   | INCI4071            | ADJUSTMENT COMPUTATIONS I               | S              | Full        |
|   | INCI4078            | TOPOGRAPHIC DRAWING                     | M              | Full        |
|   | INCI4081            | PHOTOGRAMMETRY I                        | M              | Partial (1) |
|   | INCI4085            | THEORY OF MAP PROJECTIONS               | M              | Partial (1) |
|   | INCI4086            | INTRO TO PHYSICAL GEODESY               | S              | Partial (2) |
|   | INCI4087            | SPECIAL SURVEYS                         | S              | Partial (2) |
|   | INCI4125            | INTRO TO GEOGRAPHIC INFORMATION SYSTEMS | M              | Full        |
| UNIVERSITY OF PITTSBURGH                      | CE1201              | CONSTRUCTION INFORMATION SYSTEM         | M              | Full        |
|   | CE1333              | SENIOR DESIGN PROJECT                   | M              | Full        |
|   | CE1713*             | HIGHWAY ENGINEERING                     | S              | Full        |
| *No credit if claiming CET250 from Cinn State |                     |   |                |             |
| PURDUE UNIVERSITY                             | CGT211              | RASTER IMAGING FOR COMPUTER GRAPHICS    | M              | Full        |
|   | TG105               | TECHNICAL SKETCHING                     | M              | Full        |
|   | TG107               | TECHNICAL GRAPHICS II                   | M              | Full        |
| PURDUE UNIVERSITY INDIANAPOLIS                | CET204              | LAND SURVEY SYSTEMS                     | S/B            | Full        |
| ST. CLOUD STATE UNIVERSITY                    | GEOG316             | INTRO TO GIS                            | M              | Full        |
|   | GEOG335             | LAND SURVEYING                          | S              | Full        |
|   | GEOG336             | CONTROL & GEODETTIC SURVEYING           | S              | Full        |
|   | GEOG350             | INTRO TO REMOTE SENSING                 | M              | Full        |
|   | GEOG406             | THEMATIC CARTOGRAPHY                    | M              | Full        |
|   | GEOG433             | CADASTRAL SURVEYING                     | S/B            | Full        |
|   | GEOG435             | BOUNDARY LAW                            | RP             | Full        |
|   | GEOG438             | GEODESY & SURVEYING ADJUSTMENTS         | S              | Partial (2) |
| ST. CLOUD TECH. & COMMUNITY COLLEGE           | CIE1810             | SURVEY I                                | S              | Full        |
|   | CIE1811             | SURVEY II                               | S              | Full        |
|   | CIE1812             | SURVEY III                              | S              | Full        |
|   | CIE1845             | CIVIL CAD II                            | M              | Full        |
|   | CIE1935             | CONTROL/DIGITAL SURVEYS                 | S              | Full        |
|   | CIE2811             | SURVEY PRINCIPLES II                    | S/B            | Full        |
|   | GEOG490             | BOUNDARY CONTROL & SURVEY LAW           | S/B            | Full        |
| SOUTHERN ILLINOIS UNIV. (CARBONDALE)          | CE263               | BASIC SURVEYING                         | S              | Full        |
|   | CE361               | CIVIL ENGINEERING SURVEYING             | S              | Full        |
|   | CE362               | LAND SURVEYING                          | S              | Full        |
|   | CE363               | CONTROL/CONSTRUCTION SURVEYING          | S              | Full        |
|   | CE406A/B            | INTRODUCTION TO REMOTE SENSING/LAB      | M              | Full        |
|   | CE461               | LEGAL ASPECTS OF SURVEYING              | S/B            | Full        |
|   | CE462               | SURVEY DESIGN AND LAND DEVELOPMENT      | S              | Full        |
|   | CE463               | FIELD SURVEY PROBLEMS                   | S              | Full        |
|   | CE464               | FIELD SURVEY PLANNING AND COMPUTATION   | S              | Full        |
|   | CE465               | PHOTOGRAMMETRY                          | M              | Full        |
|   | FIN320              | REAL ESTATE                             | R              | Partial (1) |
|   | FIN322              | REAL ESTATE APPRAISAL                   | R              | Full        |
|   | FIN323              | REAL ESTATE LAW                         | R              | Partial (1) |
|   | GEOG416             | ANALYTICAL CARTOGRAPHY                  | M              | Full        |
|   | GEOG420             | ADVANCED GEOGRAPHIC INFORMATION SYSTEMS | M              | Full        |



# LAPELS APPROVED COURSE LIST

Updated July 2023

| INSTITUTION                          | COURSE #                  | COURSE DESCRIPTION  | CLASSIFICATION                                      | CREDIT       |             |
|--------------------------------------|---------------------------|---|---|--------------|-------------|
| SOUTHERN POLYTECHNIC STATE (Georgia) | ENGR2160                  | CIVIL GRAPHICS & COMPUTER AIDED DRAFTING                  | M   | Full         |             |
|                                      | SURV2221                  | SURVEYING I   | S   | Full         |             |
|                                      | SURV3222                  | SURVEYING II  | S   | Full         |             |
|                                      | SURV3421                  | GEOGRAPHIC INFORMATION                                    | M   | Full         |             |
|                                      | SURV3903/4903             | DENDROLOGY  | M   | Full         |             |
|                                      | SURV4410                  | SURVEYING COMPUTATIONS & ADJUSTMENTS                      | S   | Full         |             |
|                                      | SURV4415                  | GEODETTIC SURVEYING                                       | S   | 2 hours each |             |
|                                      | SURV4465                  | LEGAL ASPECTS   | S & RP  | Partial (2)  |             |
|                                      | SURV4470                  | LAND DEVELOPMENT DESIGN                                   | M   | Partial (1)  |             |
|                                      | SURV4475                  | LAND SURVEY PRACTICE                                      | S/B   | Full         |             |
| STEPHEN F. AUSTIN UNIVERSITY         | SURV4903                  | ADVANCED GPS METHODS                                      | S   | Full         |             |
|                                      | BLAW366.020               | REAL ESTATE LAW   | R   | Full         |             |
|                                      | FOR223                    | SURVEYING & MAPPING                                       | S   | Partial (1)  |             |
|                                      | FOR323                    | FIELD STATION LAND MEASUREMENTS                           | S   | Full         |             |
|                                      | GIS224                    | INTRODUCTION TO SPATIAL SCIENCE                           | M   | Full         |             |
| TALLAHASSEE COMMUNITY COLLEGE        | HRT/AGM325                | DESIGN APPLICATION SOFTWARE I (CAD)                       | M   | Full         |             |
|                                      | EGS1111C                  | ENGINEERING GRAPHICS                                      | M   | Full         |             |
|                                      | EGS2112C                  | COMPUTER APPLICATION IN DRAFTING AND DESIGN               | M   | Full         |             |
|                                      | ETD1320                   | INTRODUCTION TO CAD                                       | M   | Full         |             |
|                                      | ETD2340                   | ADVANCED CAD  | M   | Full         |             |
|                                      | SUR2100                   | FUNDAMENTALS OF SURVEYING                                 | S   | Full         |             |
| EAST TENNESSEE STATE UNIVERSITY      | SUR2200                   | ROUTE SURVEYING   | S   | Full         |             |
|                                      | FNCE3130                  | REAL ESTATE LAW   | R   | Full         |             |
|                                      | SURV1550                  | INTRODUCTION TO SURVEYING                                 | S   | Full         |             |
|                                      | SURV2520                  | INTRODUCTION TO SURVEYING LAW                             | R   | Full         |             |
|                                      | SURV2550                  | ENGINEERING AND CONSTRUCTION SURVEYS                      | S   | Full         |             |
|                                      | SURV3510                  | ENGINEERING AND CONSTRUCTION SURVEYS                      | S   | Full         |             |
|                                      | SURV3530                  | SURVEYING MEASUREMENTS & COMPUTATIONAL ANAL               | S   | Full         |             |
| TEXAS A&M UNIVERSITY Corpus Christi  | SURV4537                  | LAND BOUNDARY LOCATION                                    | S/B   | Full         |             |
|                                      | SURV4547                  | LAND SUBDIVISION AND PLATTING                             | S   | Full         |             |
| TEXAS A&M UNIVERSITY Corpus Christi  | CVEN250                   | INTRO TO GRAPHICS & VISUAL APP IN CIVIL ENG DESIGN        | M   | Partial (1)  |             |
|                                      | CVEN303                   | CIVIL ENGINEERING MEASUREMENT                             | S   | Full         |             |
|                                      | CVEN307                   | TRANSPORTATION ENGINEERING                                | S   | Full         |             |
|                                      | CVEN403                   | APPLIED CIVIL ENGINEERING SURVEYING                       | S   | Full         |             |
|                                      | CVEN423                   | GEOMATICS FOR CIVIL ENGINEERING                           | M   | Full         |             |
|                                      | CVEN450                   | AUTOCAD IN CIVIL ENGINEERING                              | M   | Full         |             |
|                                      | ESM351                    | GEOGRAPHIC INFO SYSTEMS FOR RESOURCE MGMT                 | M   | Full         |             |
|                                      | GEOG450                   | FIELD GEOGRAPHY   | S   | Full         |             |
|                                      | GISC1336.001/W01          | DIGITAL DRAFTING AND DESIGN & LAB                         | M   | Full         |             |
|                                      | GISC1371                  | GLOBAL LAND OWNERSHIP                                     | R   | Full         |             |
|                                      | GISC1470                  | GIS 1   | M   | Full         |             |
|                                      | GISC2350                  | FIELD CAMP 1  | S   | Full         |             |
|                                      | GISC2470                  | GEOSPATIAL PLANE I MEASUREMENT I                          | S   | Partial (1)  |             |
|                                      | GISC3301                  | GIS 2   | M   | Full         |             |
|                                      | GISC3325                  | GEODETTIC SCIENCE   | M   | Full         |             |
|                                      | GISC3412                  | PLANE MEASUREMENT 2                                       | S   | Full         |             |
|                                      | GISC4302                  | PHOTOGRAMMETRY  | M   | Partial (1)  |             |
|                                      | GISC4305                  | LEGAL ASPECTS   | M   | Full         |             |
|                                      | GISC4320                  | HYDROGRAPHY   | S   | Full         |             |
|                                      | GISC4326                  | GEOMATICS PROFESSIONAL PRACTICE                           | B   | Full         |             |
|                                      | GISC4350                  | FIELD CAMP 2  | S   | Full         |             |
|                                      | GISC4371                  | TEXAS LAND OWNERSHIP                                      | R   | Full         |             |
|                                      | GISC4410                  | CADASTRAL MAPPING   | R   | Full         |             |
|                                      | GISC5384                  | CADASTRAL INFORMATION SYSTEMS DESIGN                      | M   | Full         |             |
|                                      | GSEN5300                  | FOUNDATIONS OF GIS  | M   | Full         |             |
|                                      | GSEN5381                  | CADASTRAL INFORMATION SYSTEMS DESIGN                      | M   | Full         |             |
|                                      | GSEN5381                  | GENERALIZATION OF TOPOGRAPHIC MAPS                        | M   | Partial (2)  |             |
|                                      | GSEN5383 001/W01          | ADVANCED SPATIAL ANALYSIS & DESIGN                        | M   | Full         |             |
|                                      | GSEN5384                  | GENERALIZATION OF TOPOGRAPHIC MAPS                        | M   | Full         |             |
|                                      | GSEN5384.001              | GEOSPATIAL VISUALIZATION DESIGN                           | M   | Full         |             |
|                                      | GSEN5385                  | ANALYTICAL & DIGITAL PHOTOGRAMMETRIC ENGINEERING          | M   | Full         |             |
|                                      | GSEN5390                  | ETHICS & PROFESSIONAL RESPONSIBILITY FOR GEOSPATIAL PROF. | S   | Full         |             |
|                                      | GSEN5390 W02              | GEOSPATIAL ANALYTICAL METHODS                             | M   | Full         |             |
|                                      | GSEN5396                  | CFEDS INDEPENDENT STUDY                                   | B   | Full         |             |
|                                      | GSEN5998                  | GRADUATE THESIS   | S   | Full         |             |
|                                      | GSEN6384                  | GEOSPATIAL VISUALIZATION DESIGN                           | M   | Full         |             |
|                                      | UNIVERSITY OF TEXAS TYLER | TECH1303  | ENGINEERING GRAPHICS                                | M            | Partial (1) |
|                                      |                           | TECH3341  | TOPICS IN INDUSTRIAL STUDIES PUBLIC DOMAIN OF TEXAS | R            | Full        |
|                                      |                           | TECH3342  | APPLICATIONS OF PHOTOGRAMMETRY                      | M            | Full        |
|                                      |                           | TECH4341  | LEGAL PRINCIPLES IN SURVEYING & MAPPING             | S/B          | Full        |
| TECH4342                             |                           | INTRODUCTION TO GEODESY                                   | M   | Full         |             |

LAPELS APPROVED COURSE LIST

| INSTITUTION   | COURSE #            | COURSE DESCRIPTION  | CLASSIFICATION | CREDIT      |
|---|---------------------|---|----------------|-------------|
| TROY STATE UNIVERSITY   | GEM2209             | LAND PARCEL ADMINISTRATION & LAW                                | R              | Full        |
|   | GEML209             | LAND PARCEL ADMINISTRATION & LAW LAB                            | R              | Full        |
|   | GEM2220             | BASICS OF CARTOGRAPHY & SURVEYING                               | M              | Full        |
|   | GEM3309             | LAND PARCEL ADMINISTRATION & LAW                                | R              | Full        |
|   | GEM3310             | LAND SURVEY PRACTICE  | S              | Full        |
|   | GEM3330             | ADVANCED MEASUREMENT ANALYSIS                                   | S              | Full        |
|   | GEM3366             | PHOTOGRAMMETRY & REMOTE SENSING SYLLABUS                        | M              | Full        |
|   | GEML366             | PHOTOGRAMMETRY AND REMOTE SENSING LAB                           | M              | Full        |
|   | GEM3370             | GEODESY & GEODETICS   | M              | Full        |
|   | GEML370             | GEODESY AND GEODETICS LAB                                       | M              | Full        |
|   | GEM3379             | INTRODUCTION TO LEAST SQUARES ADJUSTMENT                        | S              | Full        |
|   | GEM3390             | INTRODUCTION TO GIS   | M              | Full        |
|   | GEML390             | GEOGRAPHIC INFORMATION SYSTEMS LAB                              | M              | Full        |
|   | GEM3391             | APPLICATION OF GIS  | M              | Full        |
|   | GEML391             | APPLICATION OF GIS LAB  | M              | Full        |
|   | GEM4405             | ROUTE & CONSTRUCTION SURVEYING                                  | S              | Full        |
|   | GEM4406             | URBAN GEOGRAPHY   | S              | Full        |
|   | GEML406             | URBAN GEOGRAPHY LAB   | S              | Full        |
|   | GEM4407             | LAND DEVELOPMENT & SUBDIVISION DESIGN PRACTICE                  | R              | Full        |
|   | GEM4409             | HYDROLOGY   | S              | Full        |
| GEML409   | HYDROLOGY LAB       | S   | Full           |             |
| GEML310   | LAND SURVEYING LAB  | S   | Full           |             |
| TYLER JUNIOR COLLEGE  | CADD2334            | COMPUTER-AIDED DRAFTING   | M              | Partial (2) |
|   | SRVY1301            | INTRODUCTION TO SURVEYING                                       | S              | Partial (2) |
|   | SRVY1309            | SURVEYING MEASUREMENT PRACTICE                                  | S              | Full        |
|   | SRVY1311            | INTRODUCTION TO SURVEYING                                       | S              | Partial (2) |
|   | SRVY1341            | LAND SURVEYING  | S              | Partial (1) |
|   | SRVY1345            | LAND SURVEYING APPLICATIONS                                     | S              | Partial (1) |
|   | SRVY1391            | SPECIAL TOPICS IN SURVEYING - TITLE EXAMINATION & DEED PLOTTING | R              | Partial (2) |
|   | SRVY2386            | INTERNSHIP - SURVEYING  | S              | Partial (2) |
|   | SRVY2305            | GEOGRAPHIC INFORMATION SYSTEMS APPLICATIONS                     | M              | Partial (2) |
|   | SRVY2309            | COMPUTER-AIDED MAPPING  | M              | Full        |
|   | SRVY2314            | ROUTE SURVEYING   | S              | Full        |
|   | SRVY2324            | ROUTE SURVEYING PRACTICE  | S              | Full*       |
|   | SRVY2331            | GEODETTIC SURVEYING AND MAPPING                                 | S              | Full*       |
|   | SRVY2335            | GEODETTIC SURVEYING AND MAPPING APPLICATIONS                    | S              | Full**      |
|   | SRVY2339            | ENGINEERING DESIGN SURVEYING                                    | S              | Full**      |
|   | SRVY2341            | ENGINEERING DESIGN SURVEYING LAB                                | S              | Full        |
| SRVY2343  | LEGAL PRINCIPLES I  | S/R   | Full           |             |
| SRVY2344  | LEGAL PRINCIPLES II | S/B/R   | Full           |             |
| *These 2 courses overlap / **These 2 courses overlap                      |                     |   |                |             |
| UNITY ENVIRONMENTAL UNIVERSITY  | GISC101             | INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS                  | M              | Full        |
|   | GISC201             | GIS FOR A CHANGING WORLD  | M              | Full        |
|   | GISC301             | INTEGRATED SPATIAL ANALYSIS AND GIS APPLICATION                 | M              | Full        |
|   | GISC303             | CONSERVATION CARTOGRAPHY AND VISUALIZATION                      | M              | Full        |
|   | GISC305             | ENVIRONMENTAL IMPACT USING REMOTE SENSING                       | M              | Full        |
|   | GISC307             | FIELD DATA COLLECTION FOR GIS                                   | M              | Full        |
|   | GISC401             | ADVANCED GIS ANALYSIS FOR ENVIRONMENTAL SOLUTIONS               | M              | Full        |
| DEFENSE GEOSPATIAL-INTELLIGENCE SCHOOL                                    | 491-403(21U10)      | GEOSPATIAL ENGINEER MAP AND TERRAIN ANALYSIS                    | M              | Full*       |
|   | 491-403(21U10)      | GEOSPATIAL ENGINEER GEOGRAPHIC INFO SYSTEMS                     | M              | Full*       |
|   | 491-403(21U10)      | GEOSPATIAL ENGINEER REMOTE SENSING COURSE                       | S              | Full        |
| * Total credit of 9 hours.  |                     |   |                |             |
| WAKE TECHNICAL COMMUNITY COLLEGE  | CIV125              | CIVIL/SURVEYING CAD   | M              | Full*       |
|   | CEG111              | INTRO TO GIS AND GNSS   | M              | Full*       |
|   | GIS111              | INTRO TO GIS  | M              | Full        |
|   | GIS121              | GEOREFERENCING AND MAPPING                                      | M              | Full        |
|   | GIS246              | PRINCIPLES OF PROPERTY MAPPING                                  | M              | Partial (3) |
|   | SRV210              | SURVEYING III   | S/B            | Partial (3) |
|   | SRV220              | SURVEYING LAW   | S/B            | Full        |
| *3 hrs given for only one or the other but 4 hrs given if both are taken. |                     |   |                |             |
| UNIVERSITY OF WISCONSIN - MILWAUKEE                                       | BUSADM484           | REAL ESTATE LAW   | R              | Full        |

# LAPELS APPROVED COURSE LIST

| INSTITUTION           | COURSE #        | COURSE DESCRIPTION                         | CLASSIFICATION | CREDIT      |
|-----------------------|-----------------|--|----------------|-------------|
| UNIVERSITY OF WYOMING | CE2050 / LS2110 | REAL PROPERTY LAW                          | R              | Full*       |
|                       | CE2070          | ENGINEERING SURVEYING                      | S              | Full*       |
|                       | CE2072 / LS2010 | ENGINEERING SURVEYING                      | S              | Full        |
|                       | CE2074 / LS3300 | ETHICS FOR THE PROF. SURVEYOR              | S              | Full        |
|                       | CE2076 / LS2100 | RECORD RESEARCH FOR SURVEYORS              | S              | Full        |
|                       | CE2080          | PUBLIC LAND SURVEYS I                      | S              | Full        |
|                       | CE2082          | PUBLIC LAND SURVEYS II                     | S              | Full        |
|                       | CE2083 / LS2410 | GIS FOR SURVEYORS                          | M              | Full        |
|                       | CE2084          | PUBLIC LAND SURVEYS III                    | S              | Full        |
|                       | CE2085 / LS3130 | PUBLIC LAND SURVEYS                        | S/R            | Full**      |
|                       | CE2086          | ADVANCED PUBLIC LAND SURVEYS               | S              | Partial (2) |
|                       | CE2088 / LS3100 | REAL PROPERTY DESCRIPTIONS                 | S or R         | Full        |
|                       | CE2089 / LS2400 | BASIC GEODESY FOR TODAY'S LAND SURVEYOR    | M              | Full        |
|                       | CE2090 / LS2020 | GPS FOR LAND SURVEYS                       | S              | Full        |
|                       | CE3710 / LS3200 | ROUTE SURVEYING                            | S              | Full        |
|                       | CE3720 / LS3210 | ADVANCED SURVEYING                         | S              | Partial (2) |
|                       | CE3740 / LS3120 | BOUNDARY PRINCIPLES                        | S/B or R       | Full        |
|                       | CE3750 / LS3110 | BOUNDARY EVIDENCE                          | S/B            | Full        |
|                       | CE3760 / LS3230 | APPLIED LEAST SQUARES ADJUSTMENTS          | M              | Full        |
|                       | CE4700 / LS4110 | COASTAL WATER BOUNDARIES                   | S/B            | Full        |
|                       | CE4730 / LS4120 | INLAND WATER BOUNDARIES                    | S              | Full        |
|                       | CE4740 / LS4130 | ADVANCED PUBLIC LAND SURVEYS               | S/B            | Full        |
|                       | CE4750 / LS3400 | REMOTE SENSING & PHOTOGRAMMETRY            | M              | Full        |
|                       | CE4920          | LAND SUBDIVISION AND PLATTING              | B              | Full        |
|                       | CE4920          | APPLIED HYDROGRAPHIC SURVEYING             | S              | Full        |
|                       | CE4920          | GPS THEORY AND INSTRUMENTATION             | S              | Full        |
|                       | LS2499          | SOPH. LAND SURVEYING TOPICS                | M              | Full        |
|                       | MGT3340         | REAL ESTATE LAW                            | R              | Full        |
|                       | -               | MINOR IN LAND SURVEYING - 31 hours         | All            | Full        |
|                       | -               | CADASTRAL SURVEYING CERTIFICATE - 30 hours | All            | Full        |

\*These 2 courses overlap.

\*\*Allowed to use 1 hour for Real Property.

**CLASSIFICATIONS:**  
 S = Surveying  
 S/B = Surveying/Boundary  
 M = Mapping  
 R = Real Property  
 B = Boundary  
 S/B/R = Surveying/Boundary/Real Property  
 S/M = Surveying/Mapping

**NOTES:**  
 All pre-approvals are based on the course content as described by the syllabi that were provided to us. Any changes in the content or format of a previously approved course may result in our disapproving the course for credit toward the required 30 semester credit hours of surveying, mapping and real property courses. LAPELS does not allow credit for courses which are duplicative of, or have content which overlaps that of other courses that have been submitted for approval.