### REQUIRED MATERIALS

<table>
<thead>
<tr>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D Modeling</td>
<td>4</td>
</tr>
<tr>
<td>Access: Office Fundamentals Series</td>
<td>4</td>
</tr>
<tr>
<td>Advertising and Sales Promotion</td>
<td>4</td>
</tr>
<tr>
<td>Agriscience 2: Sustaining Human Life</td>
<td>5</td>
</tr>
<tr>
<td>Allied Health Assistant 1a: Introduction</td>
<td>5</td>
</tr>
<tr>
<td>Allied Health Assistant 1b: Skills and Specialties</td>
<td>5</td>
</tr>
<tr>
<td>American Sign Language 1a: Introduction</td>
<td>6</td>
</tr>
<tr>
<td>American Sign Language 1b: Learning to Sign</td>
<td>6</td>
</tr>
<tr>
<td>American Sign Language 2a: Communicating</td>
<td>6</td>
</tr>
<tr>
<td>American Sign Language 2b: Advancing Communication Skills</td>
<td>6</td>
</tr>
<tr>
<td>American Sign Language 3a: Community &amp; Culture</td>
<td>7</td>
</tr>
<tr>
<td>American Sign Language 3b: Conversations &amp; Culture</td>
<td>7</td>
</tr>
<tr>
<td>Anatomy and Physiology 1a: Introduction</td>
<td>7</td>
</tr>
<tr>
<td>Anatomy and Physiology 1b: Discovering Form and Function</td>
<td>8</td>
</tr>
<tr>
<td>Animation 1a: Introduction</td>
<td>8</td>
</tr>
<tr>
<td>Animation 1b: Animating Your Creativity</td>
<td>8</td>
</tr>
<tr>
<td>Applied Engineering 1a: Introduction</td>
<td>8</td>
</tr>
<tr>
<td>Applied Engineering 1b: Solving Problems Together</td>
<td>9</td>
</tr>
<tr>
<td>Business Communications 1a: Introduction</td>
<td>9</td>
</tr>
<tr>
<td>Business Communications 1b: Listen, Speak, &amp; Write in the Workplace</td>
<td>9</td>
</tr>
<tr>
<td>Business Information Management 1a: Introduction</td>
<td>10</td>
</tr>
<tr>
<td>Business Information Management 1b: Data Essentials</td>
<td>10</td>
</tr>
<tr>
<td>Business Law 1a: Introduction</td>
<td>10</td>
</tr>
<tr>
<td>Business Law 1b: Legal Aspects of Business</td>
<td>10</td>
</tr>
<tr>
<td>Business Ownership 1a: Introduction</td>
<td>10</td>
</tr>
<tr>
<td>Careers in Criminal Justice 1a: Introduction</td>
<td>11</td>
</tr>
<tr>
<td>Careers in Criminal Justice 1b: Finding Your Specialty</td>
<td>11</td>
</tr>
<tr>
<td>Coding 1a: Introduction to Programming</td>
<td>11</td>
</tr>
<tr>
<td>Coding 1b: Programming</td>
<td>12</td>
</tr>
<tr>
<td>Computer Maintenance 1a: Introduction</td>
<td>12</td>
</tr>
<tr>
<td>Cosmetology 2: The Business of Skin and Nails</td>
<td>12</td>
</tr>
<tr>
<td>Cosmetology 3a: Introduction to Hair Skills</td>
<td>14</td>
</tr>
<tr>
<td>Cosmetology 3b: Waving, Coloring &amp; Advancing Hair Skills</td>
<td>14</td>
</tr>
<tr>
<td>Culinary Arts 1a: Introduction</td>
<td>14</td>
</tr>
<tr>
<td>Culinary Arts 1b: Exploring Careers in Culinary Arts</td>
<td>15</td>
</tr>
<tr>
<td>Culinary Arts 2: Baking, Pastry, and More!</td>
<td>15</td>
</tr>
<tr>
<td>Cybersecurity 1a: Foundations</td>
<td>16</td>
</tr>
<tr>
<td>Cybersecurity 1b: Defense Against Threats</td>
<td>16</td>
</tr>
<tr>
<td>Dental Assistant 1a: Introduction</td>
<td>17</td>
</tr>
<tr>
<td>Digital Design 1a: Introduction</td>
<td>17</td>
</tr>
<tr>
<td>Digital Media Fundamentals 1a: Introduction</td>
<td>17</td>
</tr>
<tr>
<td>Digital Media Fundamentals 1b: Producing for the Web</td>
<td>17</td>
</tr>
<tr>
<td>Digital Media Web Design 2a: Build a Portfolio Website</td>
<td>18</td>
</tr>
<tr>
<td>Course Title</td>
<td>Page</td>
</tr>
<tr>
<td>------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Digital Media Web Design 2b: Build an eCommerce Website</td>
<td>18</td>
</tr>
<tr>
<td>Digital Photography 1a: Introduction</td>
<td>18</td>
</tr>
<tr>
<td>Digital Photography 1b: Creating Images with Impact!</td>
<td>18</td>
</tr>
<tr>
<td>Digital Photography 2: Discovering Your Creative Potential</td>
<td>18</td>
</tr>
<tr>
<td>Early Childhood Education 1a: Introduction</td>
<td>19</td>
</tr>
<tr>
<td>Early Childhood Education 1b: Developing Early Learners</td>
<td>19</td>
</tr>
<tr>
<td>EKG Technician 1a: Introduction</td>
<td>19</td>
</tr>
<tr>
<td>EKG Technician 1b: Analysis and Response</td>
<td>19</td>
</tr>
<tr>
<td>Emergency Medical Responder 1a: Introduction</td>
<td>20</td>
</tr>
<tr>
<td>Emergency Medical Responder 1b: Prepared for Action</td>
<td>20</td>
</tr>
<tr>
<td>Entrepreneurship 1a: Introduction</td>
<td>20</td>
</tr>
<tr>
<td>Entrepreneurship 1b: Make Your Idea a Reality</td>
<td>21</td>
</tr>
<tr>
<td>Excel: Office Fundamentals Series</td>
<td>21</td>
</tr>
<tr>
<td>Fashion Design</td>
<td>21</td>
</tr>
<tr>
<td>Forestry and Natural Resources</td>
<td>22</td>
</tr>
<tr>
<td>Foundations of Game Design 1a: Introduction</td>
<td>22</td>
</tr>
<tr>
<td>Foundations of Game Design 1b: Storytelling, Mechanics, and Production</td>
<td>22</td>
</tr>
<tr>
<td>Game Design 2a: Build a World</td>
<td>23</td>
</tr>
<tr>
<td>Game Design 2b: Launch a Game</td>
<td>23</td>
</tr>
<tr>
<td>Health 1: Life Management Skills</td>
<td>23</td>
</tr>
<tr>
<td>Health &amp; Physical Fitness 1a: Introduction</td>
<td>24</td>
</tr>
<tr>
<td>Health &amp; Physical Education 1b: Invest in Your Health</td>
<td>24</td>
</tr>
<tr>
<td>Health Science 1: The Whole Individual</td>
<td>24</td>
</tr>
<tr>
<td>Health Science Foundations 1a: Introduction</td>
<td>24</td>
</tr>
<tr>
<td>Health Science Foundations 1b: Professional Responsibilities</td>
<td>25</td>
</tr>
<tr>
<td>Health Science: Nursing</td>
<td>25</td>
</tr>
<tr>
<td>Health Science: Public Health</td>
<td>25</td>
</tr>
<tr>
<td>High School Career Discovery</td>
<td>26</td>
</tr>
<tr>
<td>Hospitality &amp; Tourism 1</td>
<td>26</td>
</tr>
<tr>
<td>Hospitality and Tourism 2a: Restaurant and Hotel Management</td>
<td>27</td>
</tr>
<tr>
<td>Hospitality and Tourism 2b: Hotel and Restaurant Management</td>
<td>27</td>
</tr>
<tr>
<td>Human and Social Services 1</td>
<td>27</td>
</tr>
<tr>
<td>Interior Design</td>
<td>28</td>
</tr>
<tr>
<td>Introduction to Networking 1a: Introduction</td>
<td>28</td>
</tr>
<tr>
<td>Introduction to Networking 1b: Network Oversight</td>
<td>28</td>
</tr>
<tr>
<td>Introduction to Programming 1a: Introduction</td>
<td>29</td>
</tr>
<tr>
<td>Introduction to Programming 1b: Problem Solving Through Programming</td>
<td>29</td>
</tr>
<tr>
<td>Learning in a Digital World: Strategies for Success</td>
<td>29</td>
</tr>
<tr>
<td>Legal Admin Specialist 1a: Introduction</td>
<td>29</td>
</tr>
<tr>
<td>Legal Admin Specialist 1b: Taking Care of the Legal Office</td>
<td>30</td>
</tr>
<tr>
<td>Life Skills: Navigating Adulthood</td>
<td>30</td>
</tr>
<tr>
<td>Management 1a: Introduction</td>
<td>30</td>
</tr>
<tr>
<td>Management 1b: Insight &amp; Oversight</td>
<td>31</td>
</tr>
<tr>
<td>Marketing Foundations 1a: Introduction</td>
<td>31</td>
</tr>
<tr>
<td>Marketing Foundations 1b: Building Your Base</td>
<td>31</td>
</tr>
<tr>
<td>Marketing 2a: Global Business and Trade</td>
<td>31</td>
</tr>
<tr>
<td>Marketing 2b: Developing a Sales Team</td>
<td>32</td>
</tr>
<tr>
<td>Medical Assistant 1a: Introduction</td>
<td>32</td>
</tr>
<tr>
<td>Medical Diagnostic Technology 1a: Introduction</td>
<td>32</td>
</tr>
<tr>
<td>Medical Diagnostics 1b: Exploring Systems &amp; Procedures</td>
<td>32</td>
</tr>
<tr>
<td>Medical Lab Assisting 1a: Introduction</td>
<td>33</td>
</tr>
</tbody>
</table>
Medical Terminology 1a: Introduction .......................................................... 33
Medical Terminology 1b: Discovering Word Foundations .............................. 33
Middle School Career Exploration 1 .......................................................... 33
Middle School Career Exploration 2 .......................................................... 33
Middle School Coding 1a: Introduction .................................................... 34
Middle School Coding 1b: Learning Python & Javascript ............................ 34
Middle School Digital Art and Design ....................................................... 34
Middle School Exploring Business ............................................................ 34
Middle School Exploring Health Science .................................................. 34
Middle School Exploring Information Technology ....................................... 35
Middle School Exploring Music ................................................................. 35
Middle School Fitness .............................................................................. 35
Middle School Game Design 1a: Introduction ........................................... 35
Middle School Photography: Drawing with Light ......................................... 36
Middle School Photography 1a: Introduction ............................................ 36
Middle School 2D Studio Art ..................................................................... 37
Microsoft Outlook: Office Fundamentals Series ......................................... 37
Network Security Fundamentals 1a: Introduction ....................................... 37
Network Security Fundamentals 1b: Forensics and Permissions .................... 38
Nursing Assistant 1a: Introduction ............................................................ 38
Nursing Assistant 1b: Patient Care ............................................................ 38
Office Administration 1a: Introduction ....................................................... 39
Office Administration 1b: Running the Office ........................................... 39
Operational Cybersecurity 1a: Introduction .............................................. 39
Pharmacology 1a: Introduction .................................................................. 39
Pharmacology 1b: Analysis and Effects ...................................................... 40
PowerPoint: Office Fundamentals Series .................................................. 40
Principles of Agriculture, Food and Natural Resources .............................. 40
Principles of Business, Marketing, and Finance 1a: Introduction .................. 40
Principles of Business, Marketing, and Finance 1b: Targeting Your Business Insight .................................................................................. 40
Principles of Information Technology 1a: Introduction .............................. 40
Principles of Information Technology 1b: Working with Computers ............... 41
Programming 2a: Procedural Programming .............................................. 41
Programming 2b: Creative Programming .................................................. 41
Reading and Writing for Purpose .............................................................. 42
Restaurant Management .......................................................................... 42
Robotics 1a: Introduction ......................................................................... 42
Robotics 1b: Intelligent Robots .................................................................. 42
Social Media: Our Connected World .......................................................... 42
Sports Medicine 1a: Introduction ............................................................. 43
Sports Medicine 1b: Injury Prevention ...................................................... 43
Theater, Cinema and Film Production 1a: Introduction ............................... 43
Theater, Cinema and Film Production 1b: Lights, Camera, Action! .............. 43
The Lord of the Rings: An Exploration of the Films and Its Literary Influences .................................................................................. 44
Web Development 1a: Introduction .......................................................... 44
Web Development 1b: Planning and Designing ......................................... 44
Web Development 2a: Sketching and Scripting ........................................... 44
Web Development 2b: Website Goes Live ............................................... 45
Word: Office Fundamentals Series ............................................................ 45
Women’s Studies: A Personal Journey Through Film .................................. 45
Workplace & Internship Readiness: Preparing for Work & Life ................... 45
Many of the courses from eDynamic Learning are not listed on this required materials list. This is because they don’t require anything beyond a device to access the course. To obtain the standard technology requirements for each course, please visit http://edynamiclearning.com/technical-accessibility-specifications/

To learn more about each course description and outline, visit our full catalog at: http://edynamiclearning.com/courses

3D Modeling

Required Materials

- Drawing paper or online drawing tool
- Protractor
- Pens and pencils
- Ruler
- Objects or graphics representing different polygons

This course was created using Blender version 2.79b and requires a computer running Windows Vista and above, Mac OSX 10.6 and above, or Linux

Minimum hardware requirements:

- 32-bit dual core 2Ghz CPU with SSE2 support
- 2 GB RAM
- 24 bits 1280×768 display

Recommended hardware requirements:

- Mouse or trackpad
- OpenGL 2.1 compatible graphics with 512 MB RAM
- 64-bit quad core CPU
- 8 GB RAM
- Full HD display with 24 bit color

Access: Office Fundamentals Series

Required Materials

- Computer (with internet access and the ability to record audio)
- Microsoft Access
- Word processing software (Word, Google Docs, etc.)
- Presentation software (PowerPoint, Google Slides, etc.)
- Printer (optional)

Advertising and Sales Promotion

Required Materials

- A digital camera or camera phone

Course Code: EDL085

Course Code: EDL232

Course Code: EDL064
Agriscience 2: Sustaining Human Life

**Required Materials**
- Plant seeds or cuttings
- Growing media
- Growing container
- A sharp blade and rooting hormone, depending on the plant you choose
- Soil or other growing media
- Soil test kit
- 2-3 pots
- Seeds of your choice (make sure your growing medium is appropriate for the seed you chose)
- Plant
- Pest management materials (vary based on chosen strategy)

Allied Health Assistant 1a: Introduction

**Required Materials**
- Computer with:
  - Internet access
  - Word processing program
  - Slideshow creation program
  - Optional spreadsheet program
- Cell phone, tablet, or computer camera with sound and video recording abilities
- Food prep materials to make a healthy meal (ingredients and utensils)
- 1 person (family, friend, classmate) or a child’s doll on which to demonstrate procedures and to use in videos

Allied Health Assistant 1b: Skills and Specialties

**Required Materials**
- Computer with:
  - Internet access
  - Word processing program
  - Slideshow creation program
- Cell phone, tablet, or computer camera with sound and video recording abilities
- 1 person (family, friend, classmate) or a child’s doll/stuffed animal on which to demonstrate procedures and to use in videos
- Mock instruments (a toy doctor’s kit, fake test strips, household items, cardboard or paper, box, stickers etc.)
- Access to an individual in the medical imaging field, a healthcare facility with an EKG technician, Registered Respiratory Therapist, member from the surgical field
American Sign Language 1a: Introduction

Required Materials

- Computer with:
  - Internet access
  - Word processing program
  - Slideshow creation program
  - Cell phone, tablet, or computer camera with sound and video recording abilities
  - A person, large stuffed animal, or chair

- 2 people (family, friend, classmate) to use in videos and lead a discussion with
- A photo (or even a drawing) of your family
- A hat—silly, crazy, or ordinary is fine
- Blank Paper
- Drawing tools (pencils, markers, etc.)

Note: Sign order should not be the focus of this course. While students should make an effort to put things into ASL sign order when appropriate, grading should not be based on this. Please also be aware that while you may learn particular signs one way, it’s possible others may learn the same signs in a slightly different manner. As in any language, there are many variances between signs and signers, as well as regional and cultural differences. Signs may also be shortened or simplified for the ease of conversation.

American Sign Language 1b: Learning to Sign

Required Materials

- Computer with:
  - Internet access
  - Word processing program
  - Slideshow creation program
  - Cell phone, tablet, or computer camera with sound and video recording abilities
  - A person, large stuffed animal, or chair

- 2 people (family, friend, classmate) to use in videos and lead a discussion with
- A photo (or even a drawing) of your family
- A hat—silly, crazy, or ordinary is fine
- Blank Paper
- Drawing tools (pencils, markers, etc.)

Note: Sign order should not be the focus of this course. While students should make an effort to put things into ASL sign order when appropriate, grading should not be based on this. Please also be aware that while you may learn particular signs one way, it’s possible others may learn the same signs in a slightly different manner. As in any language, there are many variances between signs and signers, as well as regional and cultural differences. Signs may also be shortened or simplified for the ease of conversation.

American Sign Language 2a: Communicating

Required Materials

- A camera (cell phone, table, or computer camera is fine)

- Photo of family or friends

Note: It is strongly recommended that schools create a venue in which ASL 2a students can interact with each other and practice their newly acquired skills.

American Sign Language 2b: Advancing Communication Skills

Required Materials

- A camera (cell phone, tablet, or computer camera is fine)
- Computer or tablet to play video

- Screen-capture software to record conversation or camera with ability to record conversation
- Simple video editing software

Note: It is strongly recommended that schools create a venue in which ASL 2a students can interact with each other and practice their newly acquired skills.
American Sign Language 3a: Community & Culture

**Required Materials**
- Video recording device
- Pencil or pen
- Scanner or camera to digitize map
- Materials to create a promotional tool (can be created and then a picture of the tool can be uploaded—poster, markers, glue, etc.)

**Software**
- Word processing software
- Materials to create a promotional tool (can be digital—video, slideshow, etc.)

**Other**
- Friend(s), family member(s), or conversation partner(s) for demonstration purposes
- Community member from another country for conversation

*Note: It is strongly recommended that schools create a venue in which ASL 2a students can interact with each other and practice their newly acquired skills.*

American Sign Language 3b: Conversations & Culture

**Required Materials**
- Cell phone, tablet, or computer camera with video recording abilities

**Software**
- Word processing program (Word or Google Docs)
- Graphic design tool (like Canva)
- Slideshow program (Powerpoint or Google Slides)
- Spreadsheet software (Excel or Google Sheets)

**Other**
- Access/transportation to a Deaf event
- Proof of event attendance (photo, signed letter, etc.)
- Conversation partner
- Community members or community program with which to volunteer or help

*Note: Students in ASL 3a and 3b will need to practice their conversational ASL skills with a partner or group to advance their language skills to the intermediate level. For safety reasons, we ask that the teacher or school district locate another ASL student or member of the Deaf community who is willing to be a conversation partner in person or over video chat. If this conversation partner is not able to meet, the student will need the school district or teacher to locate an alternate conversation partner with whom to practice and complete assignments.*

Students will also be asked to attend several Deaf events in the community. Alternate activities are provided for those students who are not able to find events in their areas or secure transportation.

Anatomy and Physiology 1a: Introduction

**Required Materials**
- Art supplies: paper, writing tools, modeling clay, paint, Styrofoam, or a jelly mold (needed if student is not preparing their project in a digital version)
- Smartphone or camera for recording still images
- Smartphone or video camera
- Home blood pressure monitor, or blood pressure monitor at school nurse, drugstore, etc.
Anatomy and Physiology 1b: Discovering Form and Function

**Required Materials**
- Word processing program (e.g., Microsoft Word)
- Paper and pens for drawing a diagram (optional)
- Video recording device (if teacher is remote); optional pencil or other small, thin ‘prop.’
- Access to a variety of substances of various density and composition (for percussion); e.g. fruit, hollow surfaces, jugs/cartons
- Choice between: slideshow creation software (e.g. PowerPoint); video recording; audio recording

Animation 1a: Introduction

**Required Materials**
- Pencil
- Drawing paper
- Device with photo capabilities
- Colored Pencils
- Markers
- Three lights (e.g., two lamps and a floodlight) to set up a three-point lighting system.
- Several sheets of paper that contain a storyboard template
- One or more actors
- Notebook or Post-its, or some kind of book where pages are stacked and attached on one side so that you can flip the pages

**Software**
- Word processing software
- TupiTube Desk Version 0.2.16
- Spreadsheet software

**Optional**
- Simple video editing software to combine your shots into one video clip (OpenShot, Blender, and Movie Maker 10 are examples of applications that are available for free. Windows 10 has a built-in video editing app.)
- Slide presentation Software
- Software application that allows 2D drawing, such as Adobe Photoshop, 2D CAD, or Kami

Animation 1b: Animating Your Creativity

**Required Materials**
- Notebook or Post-its, or some kind of book where pages are stacked and attached on one side so that you can flip the pages
- Pencil
- Device with video capabilities

**Software**
- Blender, software, version 2.9

Applied Engineering 1a: Introduction

**Required Materials**
- Computer with access to internet
- Paper
- Writing utensil
- Video recording tool
- Dry wash cloth or fabric
- PCV pipe - around 2 ft long (1/2” or 3/4” diameter)
- Empty, dry aluminum can
- 2 foot long piece of string
- PCV pipe - around 2 ft long (1/2” or 3/4” diameter)
- Dry wash cloth or fabric
- Tape
- One (1) styrofoam plate, cup or other source broken up into about half inch pieces (about one handful)
- Air inflated balloon
- 2 foot long piece of string
- Empty, dry aluminum can
- Account at https://www.tinkercad.com/ (email required)
- Account at https://www.tinkercad.com/ (email required)
Applied Engineering 1b: Solving Problems Together

Required Materials
- Video recording device
- Software
- Slide presentation software
- Spreadsheet software
- Audio recording device
- Word processing software
- Tinkercad (requires login)
- Other
- Helpers
- Optional
- Gantt-chart creation tool
- Writing supplies

Business Communications 1a: Introduction

Required Materials
- Video recording device
- Audio recording device
- Various materials of choice for storyboarding (white board, blank paper, etc.)
- Props for making a sandwich
- An electronic repository
- Word processing software
- Spreadsheet software
- Presentation software

Software
- An electronic communication tool (Facetime, Zoom, Google Meet, etc.)
- Various software of choice for a multimedia presentation (video editing, presentation, publishing, etc.)

Other
- A peer or family member for communicative practice
- A live or recorded unscripted conversation to watch

Optional
- Screen recording software

Business Communications 1b: Listen, Speak, & Write in the Workplace

Required Materials
- Video recording device
- Audio recording device
- Camera
- Paper
- Pen
- Markers
- Presentation software
- Screen capture recording software

Software
- Word processing software
- Spreadsheet software

Other
- A person to offer writing feedback

Optional
- Digital design software
Business Information Management 1a: Introduction

Required Materials
• Sheets of plain paper, 8.5 x 11
• If students create mock-ups by hand, then paper will be required, but students may create mock-ups by hand, in Word, or some other electronic application.
• Chrome, Edge, or Firefox internet browser
• PDF reading capability
• If students choose to create folders and files in their own Dropbox account, then they will require login credentials, but the assignment can be completed in Windows Explorer.

Business Information Management 1b: Data Essentials

Required Materials
• Microsoft Office 2019 or an Office 365 Subscription

Business Law 1a: Introduction

Required Materials
• Video recording device or cell phone

Software
• Graphic design software (like Canva)
• Slide presentation software
• Audio recording device
• Word processing software

Business Law 1b: Legal Aspects of Business

Required Materials
• Audio recording device

Software
• Word processing software
• Design software (slide presentation software)
• Spreadsheet software
• Recording and editing software (e.g., Audacity free version)
• Infographic creation software (e.g., Canva)

Business Ownership 1a: Introduction

Required Materials
• Audio recording device
• Video recording device
• Pencil and paper

Software
• Word processing software
• Presentation software
• Online maps
• Spreadsheet software
Careers in Criminal Justice 1a: Introduction

Required Materials
• Sharpened pencil
• Two sheets of plain white paper
• Clear tape (packaging tape works best, but any clear tape will do)
• Camera or device that can take pictures
• Video recording device like a phone or camera
• Poster board
• Markers

Software
• Graphic design tool (like Canva or something similar) (optional)
• Word processing software

Other
• Friend or family member to act as a “criminal”

Careers in Criminal Justice 1b: Finding Your Specialty

Required Materials
• Sharpened pencil
• Two sheets of plain white paper
• Clear tape (packaging tape works best, but any clear tape will do)
• Camera or device that can take pictures
• Video recording device like a phone or camera
• Poster board
• Markers

Software
• Graphic design tool (like Canva or something similar) (optional)
• Word processing software

Other
• Friend or family member to act as a “criminal”

Coding 1a: Introduction to Programming

Required Materials
• Students will need to create a free account for the following sites: https://www.pythonanywhere.com and /trello.com
• Students will use the following site to create flowcharts: https://www.draw.io/
• They can interact with these web sites through any typical web browser.

Software
• Graphic design tool (like Canva or something similar) (optional)
• Word processing software
Coding 1b: Programming

Required Materials

- Students will need to create a free account for the following sites:
  - https://www.pythonanywhere.com/
  - https://trinket.io/
- Students will use the following site to create flowcharts: https://www.draw.io/
- They can interact with these web sites through any typical web browser.

Computer Maintenance 1a: Introduction

Required Materials

- Video recording device
- Pen and paper

Software

- Word processing software
- Barcode creator
- QR code creator
- Text or Caret (Chromebook)
- Presentation software
- Graphic design software

Cosmetology 2: The Business of Skin and Nails

Required Materials for All Activities/Labs

- A computer with:
  - Internet access
  - A word processing program and a slide-show program
  - A friend or family member to be your model
- A camera with:
  - Sound—a cell phone camera is fine
  - Video recording capabilities
- Trash can
- Trolley for products and tools
- Disposable Latex or Nitrile Gloves
- Clean sheets and towels
- Examples of work outfits – both appropriate and inappropriate
- Five beauty products of any kind from your own bathroom (to research their ingredients)
- Optional (for those doing labs/activities by hand):
  - Large butcher paper or poster board
  - Printer
  - Markers, colored pencils, crayons

Basic Manicure & Pedicure Materials (in addition to General Materials):

- A desk (technician table)
- Seating:
  - A technician chair
  - A client chair
  - Low to floor stool
  - Footrest or ottoman
  - Tub large enough for feet
  - Bowl
  - Client Cushion or rolled towel
  - Nail Brushes
- Nail Clipper
- Nail Nippers
- Toenail Clipper
- Toenail Nippers
- Nail Board
- Wooden Pusher
- Cotton balls or gauze
- Polish Remover
- Cuticle remover

Nail Enhancement Materials (in addition to General Materials):

- Abrasive boards
- Buffer block
- Nail Dehydrator
- Nail Tip Adhesive
- Nail Tips
- Nail forms
- Tip Cutter
- Monomer/Polymer
- Massage lotion or oil
- Base Coat
- Colored Nail Polish (at least 2 different colors)
- Top Coat
- Disinfection container
- Disinfectant (or water to stand in for chemical)
- Cleaning brush

Course Code: EDL105
Course Code: EDL336
Course Code: EDL100
• Polymer powder
• Adhesive-backed fabric
• Small piece of plastic
• Small scissors
• Tweezers
• Wrap Resin

• Wrap Resin Accelerator
• Cleansing solution
• Gel Brush
• Lint-free cleansing wipes
• Nail tips and resin
• Nail dehydrator

• UV or LED gel lamp
• UV or LED gel
• UV or LED gel polish
• UV or LED bonding gel or gel primer

Facial Materials (in addition to General Materials):
• A facial table (if you don’t have one, have your client lie down on a bed or in a recliner)
• Magnifying lamp (or a flexible lamp and a magnifying glass)
• Headband, head covering, or towel with fastener
• Cotton pads
• Facial gown (you may substitute a large shirt or apron)

• Paper and Pencil
• Bowls
• Antiseptic lotion
• Cleansers and Makeup Removers
• Exfoliant
• Masks
• Toner
• Massage cream or lotion

• Moisturizers and/or sun-protective lotion
• Gauze
• Mask brush
• Paper towels
• Spatulas
• Sponges
• Tissues
• Facial steamer (optional)

Eyebrow Materials (in addition to General Materials):
• Roll of disposable paper
• Headband, head covering, or towel with fastener
• Cotton pads
• Eyebrow brush
• Wax heater

• Wax
• Wax remover
• Tweezers
• Fabric strips (if using soft wax)
• Soothing or antiseptic lotion

• Gentle cleanser and makeup remover
• Toner
• Spatulas or wooden applicators
• Eyebrow and lash tint or dye (if legal in your state)

Makeup Application Materials (in addition to General Materials):
• Makeup Cape
• Headband or hair clip
• Cotton pads, puffs, and swabs
• Sponges, Spatulas, and tissues
• Makeup Palette
• Disposable brushes for lip and mascara
• Eyelash curler and comb

• Assorted makeup brushes (for concealer, eye shadow, eyeliner, powder, brows, blush)
• Pencil Sharpener
• Cleansers
• Concealers
• Eye shadows
• Eyeliner

• Face powders
• Foundations
• Lip Colors
• Lip Liners
• Mascara
• Moisturizers
• Sunscreen
• Toner

Resume & Portfolio Materials (in addition to General Materials):
• Copies of your diplomas, certificates, and awards

• Photos from practice services you have performed

• Letters of reference or teacher recommendations
Cosmetology 3a: Introduction to Hair Skills

Required Materials

• Computer with internet capabilities, word processing program, slideshow presentation program
• Camera or phone with video recording capabilities
• Two friends or family member volunteers
• A sample release statement for client to sign
• Client chair
• Professional attire to wear in videos
• Cape for draping
• Ingredients to create a shampoo or conditioning treatment (will vary by student)
• Sink for washing and rinsing hair
• Towels
• Shampoo and conditioner
• Training mannequin head with hair
• Special effect hair coloring treatment
• Non-special effect hair color treatment
• Protective gloves

Cosmetology 3b: Waving, Coloring & Advancing Hair Skills

Required Materials

• Computer with internet capabilities, word processing program, slideshow presentation program
• Camera or phone with video recording capabilities
• Two friends or family member volunteers
• A sample release statement for client to sign
• Client chair
• Professional attire to wear in videos
• Cape for draping
• Ingredients to create a shampoo or conditioning treatment (will vary by student)
• Sink for washing and rinsing hair
• Towels
• Shampoo and conditioner
• Training mannequin head with hair
• Special effect hair coloring treatment
• Non-special effect hair color treatment
• Protective gloves

Culinary Arts 1a: Introduction

Required Materials

• A digital camera or camera phone
• A medium-size skillet
• A flat spatula
• A gas or electric range
• 4 large flour tortillas
• 16 oz shredded cheddar cheese (2 cups)
• 1 cup sliced green chilies
• 1 Tbsp vegetable oil
• Sour cream and/or guacamole for toppings (optional)
• Kitchen mixer
• 7 egg whites
• 2 tsp vanilla
• ¼ tsp salt
• 1 tsp cream of tartar
• 14 Tbsp sugar
• Food thermometer
• Medium-size frying pan
• Tongs
• Spoon
• Paper towel
• Knife
• Gas or electric range
• 1 chicken breast and thigh with skin
• 6 Tbsp flour
• 1 tsp paprika
• 2 oz vegetable oil (¼ cup)
• Salt and pepper to taste
Culinary Arts 1b: Exploring Careers in Culinary Arts

Required Materials
- A digital camera or camera phone
- Fresh shrimp (any quantity)
- Saucepan
- Gas or electric range
- Table or flat surface
- Large plate
- 1 small plate
- 2 glasses
- 2 spoons
- 2 forks
- 2 butter knives
- 1 napkin
- 1 medium-size frying pan
- 1 medium-size bowl
- 1-cup or 2-cup measuring cup
- Spatula
- 1 9x13 casserole dish
- Gas or electric range
- 8 slices of bread, cubed
- 2 cups milk
- 10 eggs
- 1 lb ground sausage
- 1 ½ cups shredded cheddar cheese
- Butter or cooking spray for greasing casserole dish
- Kitchen mixer with flat beater attachment
- Rubber spatula
- Spoon
- Baking tray lined with parchment paper
- Cling film (i.e. plastic wrap)
- 6 oz brown sugar (¼ cup)
- 3.5 oz butter (7 Tbsp)
- 4 Tbsp molasses
- 1 egg
- 13 oz flour (about 1 ½ cups)
- 2 tsp baking soda
- ½ tsp ground cloves
- 1 tsp cinnamon
- ¼ tsp salt

Culinary Arts 2: Baking, Pastry, and More!

Required Materials
- Smartphone or other way to take videos/photographs
- Presentation software (Microsoft Powerpoint, etc.)
- Stove
- Oven
- Baking and roasting pans/sheets
- Pots and frying pans
- Measuring spoons, cups and jugs
- Metal mixing bowls
- Wooden spoon/rubber spatula
- Baking parchment
- Serving plates
- Cutlery
- Water
- Salt
- Any dry ingredient (flour, sugar, etc.)
- Any liquid ingredient (eggs, milks, etc.)
- Kitchen equipment for maintenance (e.g., mixer or blender)
- Bread flour
- Cleaning materials (dish soap, sanitizer, cleaning sponge, clean cloth)
- Leavening agents (including yeast)
- Butter or preferred oil
- Pre-prepared bread mix
- Bread pans
- Flour
- Sugar
- Sweet and savory pie fillings (fruit, meats, etc.)
- Butter and shortening
- Eggs
- Pie pan
- Flour
- Butter
- Sugar
- Eggs
- Cream
- Cake pan
- Freezer
- Chocolate
- Thermometer
- Double boiler
- Baking parchment
- Pastry bag with variety of tips
- Fruit
- Sugar
- Garnishing tool of choice
- Tools of choice for molecular gastronomy
- Writing, printing, and/or drawing materials for props and planning video
- Gluten free alternative ingredient
- Three fair trade ingredients
- Two proteins of choice (fish, beef, etc.)
- Ingredients from various cultures
- Large serving plate or dish
- Cutlery for serving
- Writing materials
- Printer access
- Materials or program for designing menus
- Writing materials
- Materials or program for presentation diagrams
Cybersecurity 1a: Foundations

Required Materials
• Slide-show presentation program
• Word processing program

Software: Virtual Box: https://www.virtualbox.org/wiki/downloads
In order to run VirtualBox on your machine, you need:
• CPU: Recent Intel or AMD processor
• Memory: 2+GB RAM
• Hard disk: About 4GB free hard disk space
• Supported Operating System: Windows, Mac OS X, Linux, Solaris and OpenSolaris.

Other Materials
• USB memory stick
  (Recommended to be at least 4 GB)

Optional Materials
(The following materials will only be needed if student chooses to do some activities/labs by hand.)
• Printer
• Blank paper (a variety of sizes)
• Markers, crayons, pens, pencils

Note: Your state’s standards for this Cybersecurity course may require students to purchase and to install security equipment. Check with your school’s administration to determine if this is necessary for course completion. This course provides alternate activities that could address these standards.

Cybersecurity 1b: Defense Against Threats

Required Materials
• Slide-show presentation program
• Word processing program

Software: Wireshark:
https://www.wireshark.org/#download
In order to run Wireshark on your machine, you need:
• Hard disk: USB memory stick
  (Recommended to be at least 4 GB)
• Memory: 2+GB RAM
• Supported Operating System:
  Windows, Mac OS X

Other Materials
• USB memory stick
  (Recommended to be at least 4 GB)

Optional Materials
(The following materials will only be needed if student chooses to do some activities/labs by hand.)
• Printer
• Blank paper (a variety of sizes)
• Markers, crayons, pens, pencils

Software: Virtual Box:
https://www.virtualbox.org/wiki/downloads
In order to run VirtualBox on your machine, you need:
• CPU: Recent Intel or AMD processor
• Memory: 2+GB RAM
• Hard disk: About 4GB free hard disk space
• Supported Operating System: Windows, Mac OS X, Linux, Solaris and OpenSolaris

Note: Your state’s standards for this Cybersecurity course may require students to purchase and to install security equipment. Check with your school’s administration to determine if this is necessary for course completion. This course provides alternate activities that could address these standards.
Dental Assistant 1a: Introduction

Required Materials
- Camera phone or video camera
- Paper
- Pencil
- Friend or family member
- Colored pencils

Software
- Word processing software
- Slide presentation software

Optional
- Scanner

Digital Design 1a: Introduction

Physical Required Materials
- Audio recording device
- Paper and pens
- Camera
- A carving tool
- Ink (could be a stamp pad) or paint (any type) and paintbrush
- Substrate: paper, t-shirt, or any smooth and printable surface
- Printer

Software
- Presentation software
- Word processing software
- Vector editing software
- Website-building and hosting platform
- Web-based drawing software (such as Google Drawings)
- Photo editing software
- Digital design software
- Canva’s Color Wheel or Adobe’s Color Wheel

Digital Media Fundamentals 1a: Introduction

Physical Required Materials
- Computer with internet access
- Digital camera or smartphone
- Friends or family to serve as models in photoshoot
- Access to indoor and outdoor location for photoshoot
- Optional: tripod for camera/smartphone
- Optional: white bedsheet (for light diffuser)
- USB cable

Technical Required Materials
- Word processing software (Microsoft Word, Google Docs, etc.)
- Google Drive
- Google Slides
- Vecteezy account
- Powtoon account
- Canva account
- GIMP or Adobe Photoshop
- Optional: iMovie or WeVideo
- Optional: YouTube account

Digital Media Fundamentals 1b: Producing for the Web

Required Materials
- Internet access
- GarageBand (Mac) or Audacity (any platform)
- Headphones
- Account with Wix.com
- Presentation software, such as Google Slides
- Account with Canva (or other image creation software)
- Smartphone
- Smartphone app that records audio

Optional
- USB cord
- Microphone
Digital Media Web Design 2a: Build a Portfolio Website

Required Materials
- Word processing software
- Slide presentation software
- Video camera (optional)

Digital Media Web Design 2b: Build an eCommerce Website

Software
- Word processing software
- A free color palette picker (like Adobe’s at color.adobe.com)
- Google Drawings (requires login)
- Capability to clip or take screen shots
- GUI-based web page builder
- Access to two social media platforms

Digital Photography 1a: Introduction

Required Materials
- Manual camera or digital camera with manual settings (the camera needs to allow for the mode, shutter speed, and aperture to be adjusted)
- Tripod (or necessary item(s) to create a stable foundation such as a table)
- Reflector (white paper, poster board, sheets, or a wall can also serve as a reflector)
- Image editing software
- Access to a slideshow application, such as PowerPoint

Digital Photography 1b: Creating Images with Impact!

Required Materials
- Manual camera or digital camera with manual settings (the camera needs to allow for the mode, shutter speed, and aperture to be adjusted)
- Tripod (or necessary item(s) to create a stable foundation such as a table)
- Reflector (white paper, poster board, sheets, or a wall can also serve as a reflector)
- Image editing software
- Access to a slideshow application, such as PowerPoint

Digital Photography 2: Discovering Your Creative Potential

Required Materials
- Digital camera: “point and shoot” or above
- Image editing software capable of the following:
  - cropping
  - changing a photo to black and white
  - adjusting color and brightness
  - resizing images
  - applying filters and special effects like texture or glitter
  - creating layers
- One frame (of your choice) to display a photograph on the wall
- 3M strip (or something similar)
Early Childhood Education 1a: Introduction

Required Materials
- Computer with internet access
- Word processing program of your choice
- Paper to write on and writing utensil (optional)
- Digital design tool like Canva (optional)
- Video recording equipment (a cell phone camera works)
- Five materials of differing textures and colors

Other
Note: students should choose one of the bullet points below; either digital or analog options.
- Online tools like Google Slides, Google Docs, Canva, etc, a desktop program like Microsoft PowerPoint or Word
- Poster board

Early Childhood Education 1b: Developing Early Learners

Required Materials
- Computer with internet access
- Word processing program of your choice
- Video recording device
- Digital design tool like Canva
- A container, roughly the size of a shoebox (it does not have to be rectangular)
- Poster board (optional)
- Scissors or a sharp knife to cut (please use responsibly and safely—children would not be using this as it is just to create your sortable items)
- At least five different durable materials of varying colors (examples: wash cloth, sand paper, poster board, Styrofoam, cardboard, paper, cotton, rubber, silk, etc.)

EKG Technician 1a: Introduction

Required Materials
- Tape or stickers (blue masking tape recommended)

Software
- Word processor software
- Slide presentation software
- Spreadsheet software
- Video camera/audio recorder
- Camera
- Image creation software

Other
- “Scene” partner, dummy, or some proxy for a human (could require large sheets of paper and markers)

Optional
- Audio recording device
- Marker or pen

EKG Technician 1b: Analysis and Response

Required Materials
- Video recording device
- Audio recording device
- Couch, bed, low table, or similar object a human can lie flat on safely
- Mannequin, scene partner, large doll, or stuffed animal
- Chair

Software
- Word processing software
- Slide presentation software
- Image editing software

Optional
- Graph paper and writing utensil
- Camera
- Scanner
- Spreadsheet software
- Markers and paper
Emergency Medical Responder 1a: Introduction

Required Materials
• Computer
• Digital camera device or video recorder
• Large pen or marker

Software
• Internet access
• Word processing software

Other
• Friends or family members

Optional
• Pencil (optional)
• Paper (optional)

Emergency Medical Responder 1b: Prepared for Action

Required Materials
• Video recording device
• Doll or another prop
• Various props like towels, belts, etc.
• Audio recording device

Software
• Word processing software
• Slide presentation software

Optional
• Design program of your choice
• Pencil
• Colored pencils
• Poster boards and art supplies

Entrepreneurship 1a: Introduction

Required Materials
• Audio recording device

Software
• Word processing software
• Design software (slideshow presentation software, graphic design software)
• Spreadsheet software

Other
• Internet Access
• Friend or family member volunteer
• Interviews with financial institutions
• Relevant household props
• Online application

Optional
• Interview with business owner
Entrepreneurship 1b: Make Your Idea a Reality

**Required Materials**
- Audio recording device
- Scratch paper
- Video recording device
- Video recording device

**Software**
- Word processing software
- Presentation software
- Spreadsheet software
- Online banking simulator

**Other**
- Internet access
- Friend or family member volunteer
- Relevant household props
- 1040 form from irs.gov
- Sample W-2 form

**Optional**
- Interview with business owner

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Excel: Office Fundamentals Series

- Microsoft Office Excel 2019, or an Office 365 subscription

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Fashion Design

**Required Materials**
- art supplies, such as paper, pens, colored pencils, paints, tape, glue, scissors, poster board, and markers
- sewing machine (can be electronic programmable, straight stitch, zigzag, or old-style machine; should have tension adjustment controls)
- pattern tools to mark on fabric, such as tailor’s chalk or pen with disappearing ink
- needle and thread for hand sewing
- measuring tape or yardstick
- pattern
- raw materials to either create or modify a garment or accessory, such as fabric, buttons, and other components
- if necessary, methods to clean material, such as a dry-cleaning service, washing machine, detergent, or supplies for hand washing
- if necessary, methods to press or iron material, such as an iron, ironing board, and possibly a pressing cloth
- thread
- fabric
- notebook
- phone camera or other digital camera
- audio recording device
- video recording device

**Software**
- word processing software
- slide presentation software

**Other**
- person who works in the fashion industry to interview

**Optional**
- software that allows the creation of simple art projects, such as Photoshop or Canva
- software such as Illustrator, Photoshop, or Procreate
### REQUIRED MATERIALS

<table>
<thead>
<tr>
<th>Course Code: EDL069</th>
<th>Forestry and Natural Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required Materials</strong></td>
</tr>
<tr>
<td></td>
<td>• A digital camera or camera phone</td>
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<tr>
<td></td>
<td>• Approximately 1 cup of soil</td>
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<td>• A clear glass jar with a lid</td>
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<td>• Water to fill the jar</td>
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<td>• A ruler or tape measure</td>
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<table>
<thead>
<tr>
<th>Course Code: EDL243</th>
<th>Foundations of Game Design 1a: Introduction</th>
</tr>
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<tbody>
<tr>
<td></td>
<td><strong>Required Materials</strong></td>
</tr>
<tr>
<td></td>
<td>• Computer with:</td>
</tr>
<tr>
<td></td>
<td>• OS of Windows 7 SP1+, 8, 10, 64-bit versions only</td>
</tr>
<tr>
<td></td>
<td>• Mac OS X 10.9+</td>
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<td></td>
<td>• Server versions of Windows &amp; OS X are not tested</td>
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<td></td>
<td>• GPU: Graphics card with DX10 (shader model 4.0) capabilities</td>
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<td></td>
<td><strong>Downloadable Software</strong></td>
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<td></td>
<td>• Unity 2017.4, latest LTS version</td>
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</table>

<table>
<thead>
<tr>
<th>Course Code: EDL244</th>
<th>Foundations of Game Design 1b: Storytelling, Mechanics, and Production</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required Materials</strong></td>
</tr>
<tr>
<td></td>
<td>• Internet Connection</td>
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<td></td>
<td>• Word processing software</td>
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<td></td>
<td>• Slideshow presentation software</td>
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<tr>
<td></td>
<td><strong>Downloadable Software</strong></td>
</tr>
<tr>
<td></td>
<td>• Unity 2017.4, latest LTS version</td>
</tr>
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<td></td>
<td>• OS: Windows 7 SP1+, 8, 10, 64-bit versions only; Mac OS X 10.9+</td>
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</tbody>
</table>
Game Design 2a: Build a World

**Required Materials**
- Pen or pencil
- Index cards (15)

**Software**
- Word processing software
- Presentation software
- Unity LTS Release 2019.4.8f1 (requires login)
- Operating System: Windows 7 (SP1+) and Windows 10, 64-bit versions only. MacOS Sierra 10.12.6+, Ubuntu 16.04, Ubuntu 18.04, and CentOS 7.

**Other**
- Helper

Game Design 2b: Launch a Game

**Software**
- UnityLTS Release 2019.4.8f1 (requires login)
- Word processing software

**Other**
- Helper

Health 1: Life Management Skills

**Required Materials**
- Video recording device (smartphone, computer with camera)
- Paper and drawing materials (Not required if student has digital poster software)
- Camera

**Software**
- Design program such as canva.com (Not required if student has paper and drawing material)

**Other**
- Recipe
- All ingredients for recipe
Health & Physical Fitness 1a: Introduction

Required Materials
- Scale for weight measurement
- Yardstick or cloth measuring tape
- A timer: can use one on a smartphone, computer, or analog clock
- Pen/pencil and scratch paper
- Masking or painters tape
- Workout gear (gym shoes, athletic clothes, etc.)

Software
- Word processing software
- Fitness Inventory Software

Other
- Digital design application
- Camera or scanner to upload image of poster

Health & Physical Education 1b: Invest in Your Health

Required Materials
- Video recording device
- Audio recording device
- Camera

Software
- Word processing software
- Spreadsheet software
- Presentation software

Other
- Health Inventory Table
- Calorie-counting application or website

Optional
- Digital design software

Health Science 1: The Whole Individual

Required Materials
- A video camera / recording equipment

Health Science Foundations 1a: Introduction

Required Materials
- Computer with:
  - Internet access
  - Slideshow program (PowerPoint, Keynote, etc.)
  - Word Processing Program (Microsoft Word, etc.)
- Digital camera or camera phone with photo and video/audio capabilities
- Large piece of paper or poster board

Optional
- Markers, pencils, and other drawing/writing implements
- Drawing paper or magazines to cut up
- Glue or tape
- Scissors
- A volunteer (friend, family member, neighbor, etc.)
Health Science Foundations 1b: Professional Responsibilities

Required Materials
- Computer with:
  - Internet access
  - Word processing program
  - Slideshow program
  - Printer or access to a printer
  - Video recording device (camera phone or computer camera)
  - Two family members or friends to volunteer in videos
  - Soap, water, and a sink
  - Hand sanitizer
  - Basic cleaning supplies
- Standard growth chart from CDC or WHO
- Bathroom scale
- Measuring Tape
- Various household items to use as props to demonstrate infection control techniques (needles/sharps disposal)
- Long coat/shirt to act as a gown
- Professional attire (1 outfit)
- Gloves (single use latex or vinyl)
- Goggles
- Face mask

Health Science: Nursing

Required Materials
- Computer with word processing program like MS Word, Excel-type program, and slideshow program like PowerPoint
- Computer with access to internet
- Brochure maker software (optional)
- Video Recording device: smart phone, digital camera with audio, computer camera, or any device that can record both video and sound.
- First aid kit and supplies:
  - Alcohol and cotton swabs or alcohol wipes
  - Syringe or object to mimic syringe (pencil)
  - Bandage materials: sterile gauze, tape, large bandages
  - Space blanket
  - Antiseptic cream/gel
  - Scissors
  - Cold pack
- Surgical Gloves
- Surgical Gown (or clothing that is similar)
- Object like a piece of fruit to demonstrate asepsis
- Clean towels or pieces of cloth
- Thermometer
- Bathroom scale
- Yardstick or measuring tape
- Stopwatch or watch with timer or second hand
- Friend or family member to act as your “patient”
- Practice dummy: a large pillow or stuffed animal is a good substitute
- Automated External Defibrillator or a box with two strings attached; the strings will need adhesive bandages or tape on the ends

Health Science: Public Health

Required Materials
- Computer
  - with internet connection
  - with access to a word-processing program
  - with access to a slideshow presentation program
  - with the ability to do screen shots or use the Snipping Tool
  - with access to Dropbox
- Device with Photo- and Video-Recording Capabilities:
  - cell phone, digital camera, or computer camera
- Poster-Board or Large Butcher Paper
- Craft Materials:
• markers, glue, pencils, pens, scissors (only necessary for those who choose to create handmade projects rather than digital when given the option; however, there is always a digital option for every lab/activity that involves creating a presentation)

Optional Materials
There are ways to complete the labs and activities without these materials (as explained in individual labs and activities); however, if it is possible to obtain these materials, they will be helpful:

• Human Volunteer
  • friend or family member
• Scale
  • to take a person’s weight

• Toy Doll or Stuffed Animal for Demonstrations
• Watch, Digital Timer, or the Timer on a Cell Phone

• Measuring Tape
• Thermometer
  • to take a person’s temperature
• Blood Pressure Cuff
• Printer with Paper and Black and White Ink (and Preferably Colored Ink)
• Protective Clothing: Gown, Mask, and Gloves

High School Career Discovery
Required Materials
• Video recording device

Software
• Word processing software
• Presentation software
• Spreadsheet software

Other
• Advertisement or other marketing piece

Hospitality & Tourism 1
Required Materials
• video recording device (a camera phone, computer camera, or other kind of device capable of recording video and audio)

Software
• slide presentation software
• word processing software
• online file storage like Google Drive

Other
• friend or family member volunteer
Hospitality and Tourism 2a: Restaurant and Hotel Management

Required Materials
• Computer with:
  • Internet access
  • Slideshow program like Keynote or PowerPoint
  • Word processing program like Microsoft Word
• Video recording device
  • Digital camera, cell phone, or computer with video capabilities
• Audio recording device
  • Computer, cell phone app, or handheld voice recorder
• A friend or family member to assist with various activities/labs
• A real or fake telephone to use as a prop

Optional Materials
(only needed if student will not create labs/activities digitally)
• Craft materials:
  • Crayons, markers, colored pencils
  • Glue
  • Scissors
• Poster board or butcher paper
• Printer

Hospitality and Tourism 2b: Hotel and Restaurant Management

Required Materials
• Computer with internet access
• Slideshow presentation program (PowerPoint, Keynote, etc.)
• Word processing program (Microsoft Word, Text Editor, etc.)
• Notetaking materials such as a notebook or clipboard
• Pens and/or pencils

• Camera with photo and video recording capabilities
• Friend or family member volunteer
• Stuffed animal or doll (for CPR demonstration if friend/family member unavailable)
• Poster board and tri-fold board (if certain labs/activities are done by hand and not digitally)

Human and Social Services 1

Required Materials
• Computer with internet access and a word processing program
• Video recording device: smart phone, digital camera with audio, computer camera, or any other device than can record both video and sound

Optional Materials
• Drawing software
• Brochure maker software
• Multimedia-type programs
• Paper and drawing tools
• Digital scanner to scan hand-drawn images
• Donation box
**Interior Design**

**Required Materials**
- video recording device
- paper and/or index cards
- journal
- graph paper
- pen or pencil
- crayons, markers, or colored pencils (at least 12 colors)
- measuring tape
- printer and printer paper
- crafting supplies
- magazines, newspapers, or a computer with internet access to select furnishing items

**Software**
- word processing software
- CAD software (free download)
- spreadsheet software
- presentation software
- online virtual decoration software

**Other**
- some furnishing and décor items currently in your home
- an object to upcycle
- magazines, newspapers, fabric samples, and other items to include on a mood board
- friend or family member to act as an interviewer
- appropriate clothing for an interview role play

**Introduction to Networking 1a: Introduction**

**Required Materials**
In Unit 6 of this course, students cut and create two types of Ethernet cable. To complete this activity, they will need to purchase materials, with a total cost of around $42.00.

These activities are valuable because they give students a chance to follow procedures that are discussed in this course and to try their hands at an important networking skill. Any student who cannot complete the cabling activities may complete the alternate assignments. However, it should be noted that the alternate activities may not be in complete alignment with all the given standards for this course.

- Digital camera device
- EZ RJ45 crimp tool ($15.99)*
- EZ RJ45 connectors ($12.97)*
- Network cable tester ($6.89)*
- Cat5e cable (6 foot) ($5.99)*
- Permanent marker

*Note: There are many different brand names available, with a wide range of pricing. The items can be purchased separately or as a bundle.

**Software**
- Word processing software
- Google Sheets (requires login)
- Slide presentation software
- Image editing software
- Spreadsheet software

**Optional**
- Writing supplies
- Measuring tape
- Scissors

**Introduction to Networking 1b: Network Oversight**

**Software**
- Word processing software
- Google Drawings (requires login)
- Presentation software
- PDF reader
- Spreadsheet software

**Optional**
- Printer (optional)
- Paper (optional)
- Writing device (optional)
- Digital camera device (optional)
**Introduction to Programming 1a: Introduction**

**Required Materials**
- Computer with:
  - Internet access
  - Presentation software
  - Word processing software

*Free accounts with:
- https://www.pythonanywhere.com/
- https://trinket.io/
- https://www.google.com/
- https://www.draw.io/

*Important Note: You cannot use PythonAnywhere if you are under 13 years of age.

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**Introduction to Programming 1b: Problem Solving Through Programming**

**Required Materials**
- Internet access
- Free accounts with:
  - https://www.pythonanywhere.com/
  - https://scratch.mit.edu/
  - https://www.google.com/
  - https://www.obvibase.com/
  - https://trello.com/

*Important Note: You cannot use PythonAnywhere if you are under 13 years of age.

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**Learning in a Digital World: Strategies for Success**

**Required Materials**
- Digital camera – either camera phone, iPad, computer camera – as long as image can be recorded and uploaded to computer
- Paper and colored pencils if student chooses to hand draw certain activities

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**Legal Admin Specialist 1a: Introduction**

**Required Materials**
- Videorecording device
- Office props (desk or table, computer, paper supplies, files, pens, pencils, etc.)

**Software**
- Word processing software
- Presentation software

**Optional**
- Digital calendar

**Software**
- Spreadsheet software
- Typing speed test software (i.e., www.typingtest.com/test.html)
Legal Admin Specialist 1b: Taking Care of the Legal Office

Required Materials
• A video recording device
• A camera

Software
• Word processing software
• Spreadsheet software
• Presentation software
• Program to save a .pdf
• Email software program

Other
• Two speaking partners for communication practice

Optional
• A peer or family member to play the role of the employee
• An email account

Life Skills: Navigating Adulthood

Required Materials
• Computer:
  • with word processing program like MS Word, Excel-type program, and slide show program like PowerPoint
  • with access to internet
• Camera:
  • to photograph any activities done by hand
  • with recording capabilities to record activities
• Poster-board or butcher paper
• Timer – either an actual stopwatch or a timer on your phone
• Pencil
• Blank Paper
• A friend or family member to help with various activities and demonstrations

Optional
• Magazines and/or printer for images in U3 activity

Management 1a: Introduction

Required Materials
• Balance sheet (click to download)
• Profit and loss statement (click to download)
• Audio recording device

Software
• Word processing program
• Slide presentation software
• Internet access
• Spreadsheet software
• Tynker (Free) – https://www.tynker.com
• Lucidchart (Sign in with Google or email; Free) – https://www.lucidchart.com
• Replit (Free) – https://repl.it/ Must have an email address to create a free account

Optional
• Poster board
• Art supplies (crayons, markers, colored pencils)
• Video recording device
Management 1b: Insight & Oversight

Required Materials
• Video recording device
• Audio recording device

Software
• Word processing software
• Presentation software
• Spreadsheet software

Other
• Friend or family member

Marketing Foundations 1a: Introduction

Required Materials
• Computer with:
  • Internet access
  • Word processing program
  • Slideshow presentation program
  • Camera for still photographs (either digital or cell phone camera)
  • Video recording device with audio (computer camera, cell phone camera, etc.)

Optional Materials
• Poster board
• Markers, crayons, colored pencils

Marketing Foundations 1b: Building Your Base

Required Materials
• Computer with:
  • Internet access
  • Word processing program
  • Slideshow presentation program
  • Camera for still photographs (either digital or cell phone camera)
  • Video recording device with audio (computer camera, cell phone camera, etc.)
  • Audio recording device for podcast recording
  • Access to television, magazines, radio to observe advertisements
  • Friend or family member volunteer
  • Various video props: telephone, calculator, pen and paper, graphs and charts, cash register (or something to represent one), purchase orders, packing slips, spreadsheet

Optional Materials
• Poster board
• Markers, crayons, colored pencils

Marketing 2a: Global Business and Trade

Required Materials
• Computer with:
  • Internet access
  • Word processing program
  • Slideshow presentation program
  • Camera for still photographs (either digital or cell phone camera)
  • Audio recording device for podcast episode
  • Video recording device with audio (computer camera, cell phone camera, etc.)
  • Access to television, magazines, radio to observe advertisements
  • Friend or family member(s) to volunteer
  • Calculator (phone calculator will suffice)
  • 5 miscellaneous products from around the house

Optional Materials
• Poster board
• Markers, crayons, colored pencils
• Scissors
• Glue
• Other arts and craft materials
Marketing 2b: Developing a Sales Team

Required Materials
- Computer with:
  - Internet access
  - Word processing program
  - Slideshow presentation program
- Camera for still photographs (either digital or cell phone camera)
- Video recording device with audio (computer camera, cell phone camera, etc.)
- Calculator or calculator app
- Audio recording device for podcast recording
- Access to television, magazines, radio to observe advertisements
- Friend or family member to volunteer
- Various video props: telephone, calculator, pen and paper, graphs and charts, cash register (or something to represent one), purchase orders, packing slips, spreadsheet
- Poster board or large butcher paper

Optional Materials
- Markers, crayons, colored pen

Medical Assistant 1a: Introduction

Required Materials
- Art supplies
- Audio recording device
- Video recording device
- Camera

Software
- Spreadsheet software
- Word processing software

Optional
- Printer
- Graphic design software
- Presentation software
- Publishing software
- Friend or family member
- Index cards
- Diagrams or illustrations of different body systems

Medical Diagnostic Technology 1a: Introduction

Required Materials
- An internet connection
- Word processing software
- Poster board
- Markers or crayons
- Camera or computer with video recording capabilities

Optional
- Paper
- Ruler
- Pencil/pen

Medical Diagnostics 1b: Exploring Systems & Procedures

Required Materials
- Poster board
- Pencil
- Markers
- 2 Friends or Family members
- Thermometer
- Stopwatch
- Graph paper
- Colored pens or pencils
- Paper
- Slideshow program
Medical Lab Assisting 1a: Introduction

**Required Materials**
- Calculator
- Audio recording device
- Video recording device
- Paper and pencil
- Crayons, colored pencils, or markers
- Hand hygiene supplies (soap, towel, etc.)
- Camera

**Software**
- Word processing software
- Presentation software
- Audio editing software

**Other**
- Flashcard template software
- Graphic design software

Medical Terminology 1a: Introduction

**Required Materials**
- Standard computer with:
  - Internet access
  - Word processing program
  - Slideshow program
- Video recording device (camera phone or computer camera)
- Medical Dictionary (printed or online)
- Standard sized paper
- Pencil or colored pencils

Medical Terminology 1b: Discovering Word Foundations

**Physical Required Materials**
- Laptop or desktop computer
- Computer speakers
- Camera or video recorder
- Printer and printer paper

**Technical Materials**
- Slideshow software
- Word processing program
- Video editor

Middle School Career Exploration 1

**Required Materials**
- Computer with:
  - Word document program
  - Slideshow program
  - Pictures or images for slideshows
  - Job Application Form for U8 (downloaded from internet)
- Camera with video recording
- Calculator
- Poster board for U3 Assessment Job Board
- Printed images for U3 Assessment Job Board
- Pencil

Middle School Career Exploration 2

**Required Materials**
- Video recording device like a camera or a phone

**Software**
- Word processing software
- Slide presentation software
Optional
• Paper, pencil, posterboard and markers

Middle School Coding 1a: Introduction

Required Materials
• Device that can record video or audio

Software
• Word processing software
• Obvibase (requires login)
• Scratch (requires login)
• Lucidchart (requires login)
• OnlineGDB (requires login)
• Google Docs (requires login)

Middle School Coding 1b: Learning Python & Javascript

Required Materials
• Browser-based software that may need a login

Course Code: EDL109

Optional
• Repl.it: https://repl.it/

Middle School Digital Art and Design

Required Materials
• Digital camera or cell phone with a camera feature (requires uploading digital photographs taken by student)
• Drawing paper and colored pencils or markers or drawing software (requires creating a logo)
• Drawing paper and colored pencils or markers or drawing software or animations software (requires creating a character that could be animated)
• A computer or phone with a recording feature/app (will need to record a “radio” commercial)

Course Code: EDL077

Optional
• Art supplies, such as markers and large index cards
• Illustration software
• Printer

Middle School Exploring Business

Required Materials
• Video recording device
• Audio recording device
• Camera

Software
• Word processing software
• Presentation software

Optional
• Art supplies, such as markers and large index cards
• Illustration software
• Printer

Course Code: EDL341

Middle School Exploring Health Science

Required Materials
• Video recording device
• Household props (will vary)
• Various household items like cloth mask, cotton gloves, cleaner or antibacterial wipes
• Rubber band, belt or fabric
• Small square of paper or cotton ball
• Mechanical pencil
• Container for vial
• Friend or family member
• Graph paper
• Colored pencils
• Chair with armrests
• Additional chair

Course Code: EDL342
Software
• Slide presentation software
• Word processing software

Optional
• Paper
• Colored pencils
• Various household props
• Stuffed animal or doll
• Illustration software
• Printer

Middle School Exploring Information Technology
Required Materials
• Computer with a microphone and camera

Software
• Google Drive (requires login)
• Google Sites (requires login)
• Gmail (requires login)

Optional
• Lucidpress (requires login)
• Obvibase (requires login)
• CodeSkulptor3
• Webcam.io

Middle School Exploring Music
Required Materials
• Video recording device
• Audio recording device

Middle School Fitness
Required Materials
• Video recording device – either camera phone, iPad, computer camera – as long as video and sound can be recorded
• Paper and pencils if student chooses to hand draw certain labs rather than using slide-show presentation
• Free weights or a free-weight substitute like canned soup or milk jugs
• A ball for throwing
• A Frisbee
• Hockey stick, golf club, or baseball bat and matching ball
• Timer
• Distance tracker or distance tracking app
• Tennis racket, badminton racket, or ping-pong paddle
• Jump rope
• Volleyball or football
• A friend of family member to act as a partner

Middle School Game Design 1a: Introduction
Required Materials
Scratch 3.0 Preview
• We are accessing Scratch 3.0 Preview Version in this course. Here are the minimum requirements from the Scratch 3.0 FAQ page (https://scratch.mit.edu-preview-faq):
• Scratch 3.0 is built on industry-standard HTML5 technology and is no longer dependent on Flash. Because of this, it runs in any modern web browser.

Desktop
• Chrome (63+)
• Edge (15+)
• Firefox (57+)
• Safari (11+)
• Internet Explorer will NOT be supported.

Tablet
• Mobile Chrome (62+)
• Mobile Safari (11+)
Frequently Asked Questions

Will Scratch 3.0 work on tablets and phones?
• Scratch 3.0 will work on desktop, laptop, and tablet devices (iOS 11+ and Android 6+). On tablets, there won’t be a way to use “key pressed” blocks or right-click context menus until next year.

Will Internet Explorer be supported?
• No. We encourage Scratch 2.0 users using Internet Explorer to upgrade their browsers in advance of the Scratch 3.0 official launch.
• What is WebGL and why do I need it to run Scratch 3.0?
• You will be able to view projects on mobile phones, but you won’t be able to create or edit projects on phones.

WebGL is a browser technology that is used by Scratch 3.0 to render projects to the stage. While WebGL is supported in all modern browsers, some older computers and operating systems can not support it. For users that can not run WebGL we recommend using the Scratch 2.0 Offline Editor.

Please Note: In this course, students will be designing their games in Scratch. The current version of Scratch 2.0 is Flash-based, but a new version is coming out later this year. Scratch offers a preview mode of their 3.0 version. We have tailored our instructions toward the Scratch 3.0 preview mode, found here: https://preview.scratch.mit.edu/. We will update our instructions once Scratch 3.0 is officially launched.

Middle School Game Design 1b: Creating a Game

Required Materials
• Art supplies: paper, markers, scissors, glue, popsicle sticks
• Video recording device

Software
• Scratch (requires login)
• Word processing software
• Lunapic
• Leshy SFMaker

Other
• A friend or family member

Other
• Drawing software

Middle School Photography: Drawing with Light

Required Materials
• Digital camera: “point and shoot” or above
A Smartphone may be used for most required tasks, however, appropriate applications will need to be installed to allow the student to make the necessary adjustments to the camera mode, shutter speed, and aperture.
• Paper and Pen/Pencil for note taking
• Camera cord to transfer images to the computer
• Image Editing Software
• Lighting tools for side, front, and back lighting

Middle School Photography 1a: Introduction

Required Materials
*A Smartphone may be used for most required tasks; however, appropriate applications will need to be installed to allow the student to make the necessary adjustments to the camera mode, shutter speed, and aperture.
• Digital camera: “point and shoot” or above
• USB cable, as needed to transfer photos
• Audio recording device
• Video recording device

Software
• Word processing software
• Slide presentation software

• An everyday household object (like a TV, refrigerator, etc.)
• Assorted food items
• Backdrop (blanket, construction paper, sheet, etc.)

• Online timeline creator

Middle School 2D Studio Art

Required Materials
• Various sizes of white drawing paper
• Various sizes of colored paper
• Paintbrushes in varying sizes

• Empty cans or jars to wash paintbrushes
• Ruler and/or protractor
• Erasers
• Scissors

• Miscellaneous household objects to use for still life art
• Digital camera, camera phone, or other type of camera

Paint: (at least two or more of the following)
• Tempera Paint
• Acrylic Paint

• Watercolor
• Ink Wash

Drawing Tools: (two or more of the following)
• Pastels
• Charcoal

• Markers
• Colored Pencil

• Oil Paint
• Crayons

Microsoft Outlook: Office Fundamentals Series

Required Materials
• a computer with audio and video recording capability (or a video recording device)

Software
• Internet access
• Microsoft Outlook
• Microsoft Word

• Vistaprint.com account or similar
• Zoom.us account

• Presentation software, such as Microsoft PowerPoint
• Microsoft account

Network Security Fundamentals 1a: Introduction

Required Materials
• Video or audio recording device

Software
• Word processing software

• Presentation software

• Spreadsheet software
Network Security Fundamentals 1b:
Forensics and Permissions

Required Materials
- Steganography software
- Video or audio recording device
- Word processing software
- Mobile device
- Screen capture software

Software
- Word processing software
- Presentation software

Nursing Assistant 1a: Introduction

Required Materials
- Cell phone, tablet, or computer camera with sound and video recording abilities
- Various props to demonstrate proper patient care (wash cloth, razor, towel, feeding utensils, fake food items, paper for recording measurements, etc.)
- Materials to build a model (paper, cardboard, clay, markers, etc.)
- A doll or stuffed animal to use as a patient
- Paper, poster board, markers

Software
- Slideshow creation software
- Word processing software

Optional
- Camera
- Posterboard with markers

Nursing Assistant 1b: Patient Care

Required Materials
- Video recording device
- Various healthcare props to demonstrate tasks (gown, mask, gloves, equipment, bed, sheet, disinfectants, watch, thermometer, scale, tape measure, etc.)
- Mode of communication (cell phone, video conferencing program, etc.)
- Calculator
- A sink
- Audio recording device

Software
- Spreadsheet software
- Word processing software
- Presentation software
- Graphic design software (optional)

Other
- A “patient” (This can be a stuffed animal, a doll, or a friend/family member.)
Office Administration 1a: Introduction

**Required Materials**
- Video recording device

**Software**
- Word processing software
- Presentation software
- Electronic calendar management software
- Spreadsheet software
- Microsoft Excel

**Other**
- A friend to deliver a presentation to

**Optional**
- Design software
- Google Sheets

Office Administration 1b: Running the Office

**Required Materials**
- Calculator
- A video recording device (laptop camera, smartphone, tablet, etc.)

**Software**
- Word processing software
- Presentation software
- Spreadsheet software

**Other**
- A family member or friend

**Optional**
- Paper and writing utensil

Operational Cybersecurity 1a: Introduction

**Required Materials**
- Video recording device

**Software**
- Word processing software
- Presentation software
- Google Drive (requires login)

**Optional**
- Image editing software

Pharmacology 1a: Introduction

**Required Materials**
- Digital camera or smartphone camera
- Printer or blank paper
- Pens or markers
- Audio or video recording device
- Vegetable like zucchini, eggplant, cucumber

**Software**
- Word processing software
- Presentation software
- Computer drawing application (optional)
Pharmacology 1b: Analysis and Effects

**Required Materials**
- Paper, pens or markers
- Audio recording device
- Digital camera

**Software**
- Word processing software
- Presentation software
- Screen capture tool

**Optional**
- Television with cable or local network access (optional)

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PowerPoint: Office Fundamentals Series

**Required Materials**
- Microsoft Office 2019 (or Office 365 subscription)
- Audio and Video recording capabilities for computing device that runs PowerPoint (student will record themselves giving a presentation)
- Audio recording device

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Principles of Agriculture, Food and Natural Resources

**Required Materials**
- A digital camera or camera phone
- Supplies for an experiment of the student’s choice

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Principles of Business, Marketing, and Finance 1a: Introduction

**Required Materials**
- Computer with:
  - internet access
  - word processing program
  - Video recording device (camera phone or computer camera)
  - slideshow program

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Principles of Business, Marketing, and Finance 1b: Targeting Your Business Insight

**Required Materials**
- A computer
- Internet access
- Presentation software
- A word processing program
- An audio or video recording device

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Principles of Information Technology 1a: Introduction

**Required Materials**
- Hardware:
  - A computer with Internet access
• A video camera or a smartphone with video capability

Other:
• A working Google account: This course is using Google Chrome browser 71.0.3578.98 in screenshots and demos.

Software:
• A word processing program such as Microsoft Word
• A database program such as Microsoft Access or Obvibase
• A spreadsheet program such as Microsoft Excel

*Note for Teachers:* Unit 6 Activity requires the use of Microsoft Access in order to work with forms and queries. Access is only available for Windows at this time. Teachers are alerted that they may need to come up with an alternative project for that activity, if students do not have Access.

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**Principles of Information Technology 1b: Working with Computers**

**Required Materials**

*Note for the Teachers’ Guide:* Teachers will need to share an email address with their students so that students can share a link to a website they create in the Unit 2 Activity.

• Internet access
• Digital camera or phone that can take pictures and (optional) video
• App Inventor 2
• Microsoft Word
• Google account
• Boomerang Add-on for Gmail
• Microsoft PowerPoint
• Quizlet account

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**Programming 2a: Procedural Programming**

**Software**

• Word processing software
• PythonAnywhere (requires login)
• Trinket (requires login)
• Spreadsheet software
• Io
• Figma (requires login)
• Presentation software

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**Programming 2b: Creative Programming**

**Required Materials**

• Camera

**Software**

• Replit.com (requires login)
• App Inventor (requires login)
• Word processing software
• Canva (requires login)
• Visual Crossing (requires login)
• Presentation software

**Other**

• Helper
Reading and Writing for Purpose

**Required Materials**
- Computer with internet access
- Slideshow presentation program (PowerPoint, Keynote, etc.)
- Word processing program (Microsoft Word, Text Editor, etc.)
- Camera with photo and audio/video recording capabilities

For students that will be editing and revising their work on paper and creating some of the assigned illustrations by hand (there is always the option to create these digitally), they will need:
- Printer
- Highlighters
- Paper
- Pencils/Pens
- Crayons/Markers/Colored Pencils

Restaurant Management

**Required Materials**
- A digital camera or camera phone
- Ingredients and tools to make a simple food dish of the student’s choice
- Stove/grill/oven/microwave

Robotics 1a: Introduction

**Required Materials**
- Sound recording device
- Two-button mouse with middle scroll wheel
- Video recording device
- Digital camera or scanner

**Software**
- Word processing software
- Presentation software
- Spreadsheet software
- Google Drawings (requires login)
- Onshape (requires login)
- CoppeliaSim Edu

Robotics 1b: Intelligent Robots

**Required Materials**
- Arduino hardware kit ($59.99)*
- Paper and pencil or pen

*Note: There are many different brand names available, with a wide range of pricing.

**Software**
- Arduino IDE
- Tinkercad (requires login)
- Teachable Machine
- Word processing software
- Presentation software

Social Media: Our Connected World

**Required Materials**
- Tablet, laptop, or phone
- Audio recording device like a cell phone

**Software**
- Word processing software
- Graphic design program like Google Slides or Canva

**Other**
- Google account/access to Blogger
- Facebook or Twitter account
- Instagram account
Sports Medicine 1a: Introduction

**Required Materials**
- Video recording device
- Doll or stuffed animal
- Various props to demonstrate healthy lifestyle choices (weights, yoga mat, fruits, vegetables, etc.)

**Software**
- Word processing software
- Presentation software

**Optional**
- Poster board and markers
- Paper and pencil

Sports Medicine 1b: Injury Prevention

**Required Materials**
- Video recording device
- Camera
- Athletic tape (or appropriate substitution)
- Various props (Legos, paper, rocks, etc.)
- Household objects to create a splint and a sling

**Software**
- Word processing software
- Presentation software
- Spreadsheet software

**Optional**
- Friend or family member to act as model (or doll/stuffed animal)
- Workout gear for demonstration photos
- Exercise equipment (mat, towel, weight bench, etc.)

Theater, Cinema and Film Production 1a: Introduction

**Required Materials**
You will be required to have access to the standard editions of the three films used in this course:
- Singin’ in the Rain (1952)
- Wizard of Oz (1932)
- Casablanca (1942)

If you do not already have access to these movies, you may consider other sources such as your local library.

*Note:* Timestamps referenced throughout the course apply to standard editions of the applicable film and may not align with any extended/modified versions.

Theater, Cinema and Film Production 1b: Lights, Camera, Action!

**Required Materials**
- Word processing software
- Presentation software
- Spreadsheet software
- Blogger (requires login)

**Other**
- Access to a play or film; could be live, streaming, or physical media
- Access to an Oscar-winning film
- Access to a film noir
- Access to a film scored by John Williams
- Access to a film with costume design by Edith Head
- Access to a film that has won an Oscar for production design
The Lord of the Rings:
An Exploration of the Films and Its Literary Influences

Required Materials
You will be required to have access to the standard (non-extended) editions of the three Lord of the Rings films:
• The Lord of the Rings: The Fellowship of the Ring
• The Lord of the Rings: The Two Towers
• The Lord of the Rings: The Return of the King

If you do not already have access to these movies, you may consider other sources such as your local library.

Note: Timestamps referenced throughout the course apply to standard editions of the applicable film and may not align with any extended/modified versions.

Web Development 1a: Introduction

Required Materials
• Internet access
• Word processing software
• Google Slides (or similar software)

Web Development 1b: Planning and Designing

Software
• Visual Studio Code
• Canva Color Wheel
• Unsplash
• Icons8
• Graphics or visual HTML editor
• Word processing software

Required Materials
• Google Drawings (login required)
• Slide presentation software
• GIMP version 2.10.14
• Leshy SFMaker
• Weebly (login required)
• Image editor
• Wordtracker

Web Development 2a: Sketching and Scripting

Required Materials
• Video recording device

Software
• Word processing software
• Graphics software

Required Materials
• GitHub (requires login)
• Repl.it.com (requires login)
**Web Development 2b: Website Goes Live**

**Required Materials**
- Video recording device

**Software**
- Word processing software
- Graphics software
- GitHub (requires login)
- Replit.com (requires login)

**Word: Office Fundamentals Series**

**Required Materials**
- Microsoft Office Word 2019, or an Office 365 Subscription
- The student will create an account with some file or web hosting site (Dropbox, GoogleDocs, Wix, etc.) to create an E-portfolio as a capstone project for the course.

**Women’s Studies: A Personal Journey Through Film**

**Required Materials**
You will be required to have access to the standard editions of the films used in this course:
- Fried Green Tomatoes (1991)
- Far From Heaven (2002)
- Snow White and the Seven Dwarves (Disney Animation – 1937)
- Beauty and the Beast (Disney Animation – 1991)
- The Help (2011)
- A League of Their Own (1992)
If you do not already have access to these movies, you may consider other sources such as your local library.

**Workplace & Internship Readiness: Preparing for Work & Life**

**Required Materials**
- A video recording device (laptop camera, cell phone, tablet, etc.)
- Accounting ledger page
- Deposit and withdrawal slips

**Software**
- Online file storage (e.g., Google Drive)
- Word processing software
- Digital design program (e.g., Canva)
- Spreadsheet software
- Slide presentation software

**Optional**
- Camera or scanning device