

Note to Reader EDU 180 begins during fall quarter and concludes during winter quarter

**EDU 180: Technology and Computers in Education**  
**3 Units—Assigned in Spring Quarter**  
Elementary section

**Purpose:** EDU 180 is a course designed to meet the Using Technology in the Classroom Standards, set forth in the CA Standards of Quality and Effectiveness for Teacher Preparation Programs required by Senate Bill 2042. To that end, the course is aimed at acquainting students with the use of computer-based technology as a tool for teaching and learning. Applications of computers in education as instructional, intellectual, and communication tools will be introduced and applied to relevant educational contexts.

**Grading:**

10%	Attendance and Participation (Fall, Winter, and Spring Quarters)
50%	Class Projects/Assignments/Activities
25%	Personal Technology Portfolio/Web Page (Fall and Winter)
15%	Completion of PACT (Spring)

**Submission of Work:**

- All students need to obtain a UC Davis email account. This is a necessary to utilize the course SmartSite. Students preferring to use other email accounts (e.g. gmail, yahoo, etc.) may have their UC Davis email forwarded to the chosen account.
- All work will be submitted electronically to the designated Smart Site folders.
- Students will use My Workspace (within SmartSite) to manage and collect artifacts for completing assignments.

**Assignments:**

- Students will be developing their own professional websites that will be published on the Internet. This website will be undergoing development during the fall quarter and published during the winter quarter to be accessed by students, parents, and the general public. Several assignments throughout the year will be included in the cumulative web portfolio.
- Often, assignments related to the session topic are completed in class during time provided. If an in-class activity/assignment is not completed by the end of class time, students may turn in any time prior to the next class meeting (one week later) or on the designated due date.
- For specific assignment due dates, please consult the course schedule overview (page 3).

**Weekly “Tech Tips”:**

Each week, class time will be provided to work on activities related to the session topic as well as weekly and ongoing assignments. At the end of each class, time permitting, we will have a “Tech Tips” discussion for students to share ideas about working with technology, how they are using the tools in innovative ways, or how they found particular tools to be most helpful. Additionally, students can share ideas for using what they have learned in the course to their classroom teaching—either in their student teaching placements or in their OWN future classroom! These tips can be also posted on the course Smart Site (under the Tech Tips forum) to enhance collaboration among students.

**Outcomes:**

Upon completion of the course, students will be able to:

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- Formulate plans for using technology in the classroom across subject areas
- Use a drawing program for creating projects, communication, instructional support, classroom management
- Use spreadsheets as a tool for collecting, organizing, and analyzing data
- Create a database to collect and disseminate performance data and foster teacher-student and school-home communication
- Develop a personal web page with linked pages that enhance the student's electronic teaching portfolio
- Search and analyze web resources for relevance and effective use in the curriculum
- Integrate digital images into documents and web pages, including digitizing images (e.g. student work, and photos)
- Communicate through email, email attachment, and remote collaborative, online forums (e.g. SmartSite)
- Digitize and edit a video clip of teaching activity

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### Course Schedule Overview:

(Information regarding winter sessions will be provided in January)

Session	Session Topic	Objectives/Activity	Activity/Assignment
<b>Session 1</b> Thursday, September 25	Course Intro/Syllabus Smart Site Word Drawing Tools	Using drawing software to create class projects, instructional support, and management tools	<ul style="list-style-type: none"> <li>• Technology Timeline (<b>due 10/2</b>)</li> <li>• Bring Student Data (<b>for 10/16</b>)</li> </ul>
<b>Session 2</b> Thursday, October 2	Powerpoint  <b>*Technology Timeline Due</b>	Slide design Adding images Animation/sound Support for engaging, interactive instruction	<ul style="list-style-type: none"> <li>• In-class demonstration and application</li> <li>• Instructional slideshow (<b>due 10/16</b>)</li> </ul>
<b>Session 3</b> Thursday, October 9	Beginning Webpage Scanning/Uploading Images	Making tables Uploading images/ Copyright Plan website layout Visual literacy Image optimization	<ul style="list-style-type: none"> <li>• Read Aloud (<b>link due 10/23</b>)</li> <li>•</li> </ul>
<b>Session 4</b> Thursday, October 16	Spreadsheets  <b>*Interactive PowerPoint Due</b>	Organizing and sorting data Simple formulas Graphs and charts Interpreting data	<ul style="list-style-type: none"> <li>• In-class demonstration and application</li> <li>• Student Assessment (<b>due 10/30</b>)</li> </ul>
<b>**Session 5</b> Thursday, October 23	Legal and ethical issues in Technology;	Assignment completion	<b>*All fall quarter assignments due on or before Thursday, October 30<sup>th</sup> at 12:00 p.m.</b>
<b>**Monday, October 27</b>	Principles of computer hardware and software operation	Operating and troubleshooting computers and peripherals	

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**3 Units—Assigned in Winter Quarter**

Please refer to the syllabus provided in Fall Quarter for Course overview, goals/objectives, and grading policy.

**Winter Quarter Course Schedule Overview:**

**Class meets on Thursdays from 12:00 – 2:30**

<i>Session</i>	<i>Session Topic</i>	<i>Objectives/Activity</i>	<i>Activity/Assignment</i>
<b>Session 1</b> Thursday, January 8	Excel Spreadsheets	Review Student Data Analysis	n/a
	PACT	Converting files for electronic submission of PACT	PACT materials digitized and saved on 2 CDs <b>(due 1/15)</b>
	Website Development	Web Design/Layout Uploading files to server folder	Website files in server folder <b>(due Spring Quarter)</b>
<b>Session 2</b> Thursday, January 15	Mail Merge	Keeping Student Records Communicating with Students and Parents	Student or parent letter <b>(due 1/29)</b>
	Word Tables	Formatting Tables	Loop Around <b>(check EDU 309 due date)</b>
<b>Session 3</b> Thursday, January 22	Video	Introduction to Digitizing and Editing Videos	5-minute video clip on CD <b>(due 2/12)</b>
<b>Session 4</b> Thursday, January 29	PACT Templates	Introduction, Overview, Linking	Math PACT <b>(due early to mid-April)</b>
	Video Website	Continued Work on Assignments	5-minute video clip <b>(due 2/12)</b> Website files in Server folder <b>(due Spring Quarter)</b>

**Winter Quarter Assignments:**

**Science Mini PACT**—All PACT documents should be digitized and submitted on two CDs (not DVD) labeled with the following information (in permanent marker): PACT ID#, Science Elementary Science Mini-PACT

**Mail Merge**—data file and “communication”

**Loop Around**—dual assignment for Edu180 and Edu 309 (Elem. Math Methods) to be posted on your webpage as a pdf

**Website**—“necessary” pages linked and uploaded to server file

**5-Minute Video Clip**—can be completed with partner (must have video of each teaching)

**PACT Templates**—MS Word files used to organize and submit your PACT. All files must be on a single CD and three copies will be submitted