THERE’ S AN APP FOR THAT
Ubiquitous Computing Thinking Outside the Classroom

McCARTHY | HUI
RYERSON UNIVERSITY
LIBRARY SERVICES | DEPARTMENT OF ARCHITECTURAL SCIENCE

ARLIS/NA CONFERENCE 2012 | REMIX, REUSE, REWORK: FOSTERING LEARNING BEYOND THE CLASSROOM
PRESENTATION

HIGH SCHOOL

ASSESSMENT

REAL WORLD

ADMISSION

UNIVERSITY

UBIQUITOUS MOBILE COMPUTING | BLURRING WHAT IS INSIDE AND OUTSIDE THE CLASSROOM
WIDESPREAD COMMUTER STUDENT POPULATION

- Among the country’s largest student populations
- Average daily commute of 80 minutes

SURROUNDED BY A SPECTRUM OF NOTABLE ARCHITECTURAL WORKS

- Nation’s largest urban center with works by major international designers
- Excellent variety of eras, typologies, and construction methods
• 76% take public transit to attend school
• 82% consume digital media during commutes
• 3% do not own cell phones
• <15% do not own smartphones
• 74% have portable computers
FIRST YEAR FIRST TERM WEEKLY BREAKDOWN

1. MANUAL DRAWING
2. PHYSICAL MODELING
3. DIGITAL DESIGN
4. FINAL DESIGN

- TOTAL OF 12 HOURS OF TUTORIALS OVER SEVEN WEEKS
- TOOLS USED TO SUPPLEMENT OTHER COURSES
- ACCELERATED ADOPTION OF TECHNICAL SKILL
- ENHANCED COMMUNICATION & STUDIO TIME

PORTABLE TUTORIALS | THE BETTER WAY TO GET STUDENTS TO COMMUNICATE & DESIGN
ONLINE TUTORIALS | THE BETTER WAY TO GET STUDENTS TO COMMUNICATE & DESIGN
ONLINE TUTORIALS | ALLOWING FOR MORE ITERATIVE DESIGN DEVELOPMENT
ONLINE TUTORIALS | ALLOWING FOR MORE ITERATIVE DESIGN DEVELOPMENT
ONLINE TUTORIALS | EMPOWERING STUDENTS AND STRENGTHENING IN-CLASS/STUDIO TIMES
http://news.library.ryerson.ca/datamob/

...BECAUSE YOU CAN NEVER FIND AN ARCHITECTURE PROF WHEN YOU NEED ONE!
ENGAGE INCOMING FIRST YEARS ABOUT URBAN BACKGROUND

BEGUN AS A DIGITAL DESIGN EXPERIMENT

INTEGRATION INTO HISTORY/THEORY COURSE FOR CONTENT GENERATION

INTEGRATION INTO STRUCTURES COURSE FOR STRUCTURAL CLASSIFICATIONS

ARCH-APP | TURNING THE CITY INTO THE CLASSROOM
<table>
<thead>
<tr>
<th>ENHANCED CHANNELS FOR USER-GENERATED CONTENT</th>
<th>TUTORIALS</th>
<th>ARCH-APP</th>
</tr>
</thead>
<tbody>
<tr>
<td>-STUDENT-CREATED TUTORIALS</td>
<td>-MULTI-PLATFORM</td>
<td></td>
</tr>
<tr>
<td>-RATING/COMMENTS</td>
<td>-RATING/COMMENTS</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMPROVED UPDATE POTENTIAL</th>
<th>TUTORIALS</th>
<th>ARCH-APP</th>
</tr>
</thead>
<tbody>
<tr>
<td>-ROBUST SYSTEM</td>
<td>-LEVERAGE ADDITIONAL ONLINE RESOURCES</td>
<td></td>
</tr>
<tr>
<td>FOR NEW VERSIONS OF SOFTWARE</td>
<td>-MULTIMEDIA</td>
<td></td>
</tr>
<tr>
<td>-ADDENDA TUTORIALS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADOPTION BY OTHER DEPARTMENTS &amp; INSTITUTIONS</th>
<th>TUTORIALS</th>
<th>ARCH-APP</th>
</tr>
</thead>
<tbody>
<tr>
<td>-INTERIOR DESIGN/ENGINEERING</td>
<td>-CITY OF TORONTO</td>
<td></td>
</tr>
<tr>
<td>-CONTINUING EDUCATION OPTION</td>
<td>-PLANNING SCHOOL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-YOUR UNIVERSITY?</td>
<td></td>
</tr>
</tbody>
</table>
Platforms of communication and entertainment are converging in educational contexts.

Technical Tutorials
- Current generation of students learn via multimedia

Arch-App
- Mobile/e-learning gaining traction with many institutions

Leverage familiar and accessible resources to enhance existing course frameworks.

Technical Tutorials
- Ubiquitous, mobile computing adopted by majority of students

Arch-App
- Most students familiar with HUD/AR

Encouraging feedback loops and meaningful, useful content.

Technical Tutorials
- Video tutorials outside of class; discussion & application in studio

Arch-App
- Generation/use of content drives sense of ownership and value

There's an app for that | Ubiquitous computing thinking outside the classroom
THERE’S AN APP FOR THAT
Ubiquitous Computing Thinking Outside the Classroom

McCARTHY | HUI
RYERSON UNIVERSITY
LIBRARY SERVICES | DEPARTMENT OF ARCHITECTURAL SCIENCE

ARLIS/NA CONFERENCE 2012 | REMIX, REUSE, REWORK: FOSTERING LEARNING BEYOND THE CLASSROOM
INTEGRATION WITH OTHER COURSES

INTEGRATION WITH EXTERNAL GROUPS

INTEGRATION WITH OTHER CITIES

ARCH-APP: FUTURE DIRECTIONS | CURRENTLY IN PROCESS
ARCH-APP: FUTURE DIRECTIONS | PENDING FUNDING: IMPROVED AUGMENTED REALITY INTEGRATION