February 19, 2007

UMBC AN HONORS UNIVERSITY IN MARYLAND

TO: Antonio Moreira, Vice Provost for Academic Affairs Jack Suess, Vice President for Information Technology

- FR: Steve Anderson, Manager, Classroom Technology, OIT Jim Donlan, Director, Facilities Management Al Frankel, Asst. Dir., Scheduling and Registration, Academic Services John Fritz, Director, Instructional Technology & New Media, OIT Dave Hollander, Acting Registrar, Academic Services Joe Rexing, Assoc. Dir., Campus Architect, Facilities Management
- RE: Classroom Technology Strategic Plan & FY08 Request

Tony & Jack,

Per unanimous approval at the 12/12/06 Provost's Classroom Committee, we are attaching a strategic plan for classroom technology at UMBC.

While the attached plan lays out a broad, three-year strategy and budget to equip all registrar-controlled classrooms with fixed presentation technology by FY11, please consider this memo as a more detailed request for the first year of the plan by upgrading 13 Sondheim classrooms in FY08 at a total project cost of \$80,150.

A few issues and opportunities:

- Per the Classroom Committee's request on 12/12 and a recommendation in the plan itself (see p. 5), we met as a "working group" on 1/25/07 and 2/2/07 to identify specific costs for electrical prep work to support technology upgrade of any UMBC classrooms. The result? FM staff estimate the per room electrical cost to be \$1k (or \$2k if outsourced), or \$14-28k per fiscal year, based on the plan's recommendation to equip 14 rooms each in FY08 and FY09 and 12 rooms in FY10 (40 rooms total).
- 2. In addition, we identified 13 rooms in Sondheim (107-114, 207-209 and 409) as being the most logical first block of rooms to be upgraded in FY08 for the following reasons:
 - a. OIT is on pace to make 7,282 mobile technology cart deliveries in Academic Year (AY) 2006-07. Of these deliveries, 70 percent have been or will be for classrooms with 20-49 seats, 37 percent of which represent 11 rooms in Sondheim; ACIV has six rooms representing the next largest 20-49 seat delivery "block" at 20 percent. Upgrading Sondheim will dramatically decrease OIT's mobile technology demand (and reliance on PT student staff to support it).

Office of Information Technology University of Maryland, Baltimore County 1000 Hilltop Circle Baltimore, Maryland 21250

PHONE: 410-455-6262 FAX: 410-455-1065 VOICE/TTY: 410-455-3233 WWW.umbc.edu/oit

- b. Two other Sondheim rooms (003 and 409) represent only five percent of the next largest delivery block (50-79 seats), but FM staff recommend "block" classroom upgrades to reduce their own or outsourced contractor costs if spread across many campus buildings. The attached plan also calls for upgrading two rooms greater than 50 seats each fiscal year.
- 3. Three Sondheim rooms (107, 114 and 414) fall below FM's "Fair Condition" room code "showing average wear" . . . and anticipated "replacement in less than 10 years." The work group struggled on this point because it showed how building life cycle replacement (25-30 years) contrasted sharply with technology life cycle replacement (4-6 years). Should the campus invest presentation technology funds in rooms that are below acceptable use and require new "finishes" (e.g., paint, floors, walls, etc.) to make the rooms themselves presentable? The work group would welcome additional renovation funds to bring one of these three rooms up to "fair condition" so the campus can stay on pace to complete 14 rooms in FY08, but recognizes this request is outside the scope of the class tech plan.
- 4. If possible, the Sondheim classroom technology upgrade should occur in the six-week Summer Session II. This assures use of FY08 funding and makes for more efficient subcontracting by Facilities Management. Also, Summer Session II usually isn't as full as the first, which would make it easier to take Sondheim "off line" to complete the classroom upgrades. Alternately, we could spread implementation across the FY08 Summer (9 classrooms) AND Winter sessions (4 classrooms).
- 5. Pending campus support for the plan and this proposed FY08 Sondheim upgrade, the work group felt the Office of Summer, Winter and Special Programs should be notified at once to plan class schedules accordingly.
- 6. FM staff requested knowing the FY09 class tech upgrade plan as soon as possible so FM can align its own budget for facilities renewal and repair, which might help avoid falling behind the plan's recommended schedule (point #3 above). Additionally, AS staff requested looking at a wider distribution of classroom technology funds across multiple buildings in FY09. But the work group also acknowledged it would like to assess the impact of the FY08 Sondheim upgrades on OIT support demands and AS scheduling needs before finalizing an FY09 plan. We would like Classroom Committee input on this assessment as well.
- 7. While the attached plan calls for \$113,700 in additional campus funding to upgrade 14 classrooms in FY08 (see page 4), OIT is prepared to provide all labor for the Sondheim upgrade (\$42k), and reduce the planned FY08 upgrade by one room to 13 total (\$4,550) for a total equipment cost of \$67,150. Combined with FM's estimate of \$1k electrical work per room (\$13k) the total project cost would be \$80,150.

If you have any questions or need more information, please let us know.

UMBC Classroom Technology Strategic Plan

(A Proposal for Campus Review and Discussion)

Prepared by

John Fritz, Director Instructional Technology & New Media, OIT

&

Steven Anderson Manager, Classroom Technology, OIT

December 4, 2006

Proposal

Currently, UMBC uses 144 rooms on campus for some form of instruction. The Registrar controls approximately 73 "general purpose" (GP) classrooms (33 with fixed presentation technology). Departments control 71 "other" rooms (49 with fixed technology).

Starting in FY08 and ending in FY10, the Office of Information Technology (OIT) proposes to install and maintain fixed presentation technology in the 40 remaining, university-controlled classrooms at a total cost of \$421,944. Also, starting in FY08, annual maintenance would cost \$20,800 and reach 41,600 by the start of FY11 when all UMBC classrooms have fixed presentation technology.

For this project, OIT requests \$322,000 in additional university funding for installation. In return, OIT will convert \$65,000 in current PT student L&A funds into and an additional FT staff position, and cover the \$41,600 in ongoing annual maintenance from its current Audio-Visual Services operating budget.

Background

Since FY04, OIT has pursued a piece-meal approach to fixed classroom technology installations, basically trying to install 10 to 12 rooms per year out of existing operating funds. Yet, currently with fixed presentation technology in 45 percent of UMBC's 73 classrooms (slightly below the 46 percent national average for our doctoral institution peer group¹), requests for mobile technology deliveries have not decreased, and are actually rising.

Currently, OIT pays 18-20 part-time students an average of \$7 per hour to push mobile technology carts into rooms not equipped with fixed technology, which translates into \$65,000 annually for Labor & Assistance (L&A). While the student assistants are very busy for 15-20 minutes each hour during class changes, they are not very busy during the remaining 40 minutes when classes are in session. They generally can't commit to more than 5-10 hour shifts each week (which requires hiring, training and paying several of them to cover the daily class schedule). They also don't have the requisite training, experience and (in some cases) interest to maintain fixed technology classrooms.

Finally, the current room scheduling process for each semester is paper-based and manually intensive for both Academic Services and UMBC academic departments. As a result there is little time during the academic year for analysis beyond meeting basic course seating demand with available room capacity. Consequently, some faculty who don't use technology are assigned to fixed technology rooms they don't use while OIT continues to pay students to push mobile carts to faculty who use presentation technology more frequently.

OIT and Academic Services have worked together to identify faculty who use technology more frequently, before room assignments are made. But this is an ad hoc process that does not scale well to efficiently meet the demand OIT has seen in recent years. And to revamp the scheduling process now may be a temporary solution until we know better how PeopleSoft Student Administration handles course, room and student data.

For a number of reasons, OIT recommends pursuing fixed installation to efficiently and effectively meet growing faculty and student classroom technology needs.

¹ See EDUCAUSE Core Data Survey at <u>http://www.educause.edu/1 2 Details/1325</u>.

Current Classroom Type & Inventory (# of Registrar-controlled classrooms)

TYPE I (14) Basic: General Purpose classroom w/transparency projector, screen & net jack; TYPE II (24) Basic + TV/VCR;

TYPE III (2) Low-range (LR): Basic + data/video projector, comp/video/audio inputs, controller; *TYPE IV* (25) Mid-range: LR + VCR/DVD player (**proposed minimum for all classrooms**); *TYPE V* (8) Lecture Hall: Data/video projector, PC, comp/video/audio inputs/outputs, controller; *TYPE VI* (10) Computer Lab: Data/video projector, PC, comp inputs, controller, student PCs.

Installation Plan (40 total installs: 14 each in FY08 & FY09; 12 in FY10)

Personnel

- Total labor costs for 40 classroom installs = \$120,000
 - Consulting: projectors, speakers, wiring installs @ \$2,000 (\$80,000)
 - OIT staff: build/mount control panels @ \$1,000 (\$40,000)
 - Labor cost per install = \$25/hour (UMBC) or \$50/hour (consulting).
- It takes one person three days to permanently fixture a classroom.
 - Most classrooms are "off line" 4 weeks in winter (i.e., 6 classroom installs); 10 weeks in summer (i.e., 16 classroom installs).
- Separate "electrical prep" work would need to be done before installations. *Operating*
 - Total equipment costs for 40 classroom installs = \$202,000
 - Average cost per classroom with 50 or less seats (30) = \$4,550 (\$136,500)
 - Average cost per classroom with 50 or more seats (10) = \$6,550 (\$65,500)
 - Requires more advanced projector for acceptable display.
 - Does NOT include a computer; faculty would need their own laptops.

Maintenance (based on average of 12 classroom upgrades per year)

Personnel

- Recommended FT staffing average = 1 person for every 10 fixed tech classrooms
 OIT current staffing
 - 6 FT staff, including one electrical engineer; OIT would need one new engineer in last year of project (FY10).
 - 18 PT students to push mobile tech carts; OIT would shift to two (2) 20 hour/week GA's in FY09 & apply \$65k L&A to FT position in FY10.

Operating*

Assuming a 6-year, life-cycle replacement (including 3-year warranty for new equipment), OIT would annually refresh 1/6th of the 73 fixed tech classrooms starting in FY11. This averages to approx. 12 classrooms (10 small rooms; 2 lecture halls) per year or \$41,600:

- Projectors @ \$1,000 each (small room) or \$3,000 (lecture halls) = \$10,000 16,000
- Lamps @ \$400 for 2k hours (small room); 1k hours (lecture hall) = \$4,000 5,600
- Annual license for remote monitoring and control system = \$10,000
- Campus-wide loss from theft, accidents = \$10,000

As a result, phased-in maintenance can be determined by working backwards from full implementation in the start of FY11:

- FY11: 73 rooms = 100 percent (or \$41,600)
- FY10: 61 rooms = 84 percent (or \$34,944)
- FY09: 49 rooms = 67 percent (or \$27,872)
- FY08: 37 rooms = 50 percent (or \$20,800)

| | FY08 | FY09 | FY10 | FY11 | TOTAL |
|------------------------|---------|---------|---------|---------|---------|
| Capital | | | | | |
| New Equipment Installs | 71,700 | 71,700 | 58,600 | 0 | 202,000 |
| · Related Consulting | 28,000 | 28,000 | 24,000 | 0 | 80,000 |
| · Related OIT Labor | 14,000 | 14,000 | 12,000 | 0 | 40,000 |
| Sub Total | 113,700 | 113,700 | 94,600 | 0 | 322,000 |
| Personnel | | | | - | |
| FT Staff | 0 | 0 | 65,000 | 65,000 | 130,000 |
| Sub Total | 0 | 0 | 65,000 | 65,000 | 130,000 |
| Maintenance | | | , | | |
| Operating* | 20,800 | 27,872 | 34,944 | 41,600 | 125,216 |
| Less L&A Savings | -10,000 | -20,000 | 0 | 0 | -30,000 |
| Sub Total | 10,800 | 7,872 | 34,944 | 41,600 | 95,216 |
| Total | 124,500 | 121,572 | 194,544 | 106,600 | 547,216 |

| Upgrade Scenario #2: T | ype III (Basic | Plus: room | < 50 = \$4,03 | 6; room > 50 = | \$6,036) |
|------------------------|----------------|------------|---------------|----------------|----------|
| | FY08 | FY09 | FY10 | FY11 | TOTAL |
| Capital | | | | | |
| New Equipment Installs | 64,504 | 64,504 | 52,432 | 0 | 181,440 |
| · Related Consulting | 28,000 | 28,000 | 24,000 | 0 | 80,000 |
| Related OIT Labor | 14,000 | 14,000 | 12,000 | 0 | 40,000 |
| Sub Total | 106,504 | 106,504 | 88,432 | 0 | 301,440 |
| Personnel | | 5.55 | | | |
| FT Staff | 0 | 0 | 65,000 | 65,000 | 130,000 |
| Sub Total | 0 | 0 | 65,000 | 65,000 | 130,000 |
| Maintenance | | | | | |
| Operating* | 20,800 | 27,872 | 34,944 | 41,600 | 125,216 |
| Less L&A Savings | -10,000 | -20,000 | 0 | 0 | -30,000 |
| Sub Total | 10,800 | 7,872 | 34,944 | 41,600 | 95,216 |
| Total | 117,304 | 114,376 | 188,376 | 101,600 | 521,656 |

Issues & Opportunities

- Upgrade Scenario #1 (stand-alone control units) can support a variety of faculty technology comfort levels, but costs on average \$500 more per classroom to install.
- Upgrade Scenario #2 (wall-mounted AV inputs only) is cheaper, but assumes more faculty can meet their DVD, CD and video playback needs with a laptop, and means to digitize videotape and photography in advance.
- Given "commodity" cost of most projectors, OIT favors replacement vs. repair for maintenance. However, costs could go up as standardization goes down if installation is spread over too many years.

- Some of the 33 current rooms with fixed presentation technology will need to be refreshed before we reach campus-wide implementation in FY11. Once all UMBC classrooms have fixed technology, OIT will need to refresh approx. 12 rooms per year.
- This plan assumes that any additional classrooms in new buildings will include costs for installation, labor and maintenance using similar replacement costs above.
- This plan does NOT currently address technology installation or maintenance of classrooms controlled by departments. OIT can either consult with departments on their fixed technology installation and maintenance needs and/or loan OIT's current mobile technology carts for permanent room assignment.
- This plan relies more (not less) on faculty having their own laptops. Over the years, some instructors have become reliant on a built-in computer in OIT's mobile technology carts (not just the data projector). But this initiative must be coordinated with the annual Computer Replacement Initiative (CRI) to make sure faculty have the equipment they need to complement a fixed presentation technology classroom infrastructure.
- Based on past installation efforts, OIT has learned that Facilities Management needs to be consulted early for advanced electrical preparation of the classroom sites. Access to classrooms is limited during regular semesters, so winter and summer breaks are the prime time for installation.
- According to the most recent EDUCAUSE annual campus computing survey, only 46 percent of classrooms have fixed presentation technology at doctoral institutions vs. 50 percent amongst all institutions (<u>http://www.educause.edu/1_2_Details/1325</u>). This may be because smaller, liberal arts colleges have fewer rooms to convert to fixed technology.
- While one may reasonably ask why UMBC should move toward 100 percent fixed classroom technology, consider the following: The EDUCAUSE data is nearly two years old now, and most schools of UMBC's size are trying to move toward 100 percent coverage because demand is growing. And like UMBC, other schools are finding the challenges of efficiently scheduling existing tech rooms (while supporting mobile technology deliveries) to be daunting. We are neither fish nor fowl (completely mobile or fixed) and we're paying for this inefficiency.
- Granted, AV Services will have to become more technically sophisticated (and staffed) to support all classrooms with fixed technology. But the AV staff may also be freer to promote, document and explain what UMBC classrooms have, to hopefully increase faculty adoption as well as efficient, effective use of the technology. The AV staff is intrigued by the idea of more formal, systematic training. They have a lot of expertise, and if they weren't so busy trying to herd students delivering mobile carts while also patching a growing inventory of fixed technology classrooms, they would have time (and desire) to share their knowledge.
- In addition to training, OIT would like to support faculty AND students by providing more "practice space" in existing training labs. Short of the touch panel screens found only in the lecture halls, OIT would like to equip ECS 025 (and maybe the International Media Center's "seminar room" in ACIV 219) to become fully operational training rooms that mirror the kind of technology faculty AND students will find throughout the campus (control units and/or AV wall inputs, document cameras and maybe the CPS in-class, audience response "clickers" Biology Professor Phil Sokolove and others use).

TYPE I (14) Basic: General Purpose classroom w/transparency projector, screen & net jack

TYPE II (24) Basic + TV/VCR

TYPE III (2) Low-range (LR): Basic + data/video projector, comp/video/audio inputs, controller

TYPE IV (25) Mid-range: LR + VCR/DVD player (proposed minimum for all classrooms)

TYPE V (8*) Lecture Hall: Data/video projector, PC, comp/video/audio inputs/outputs, controller

TYPE VI (10) Computer Lab: Data/video projector, PC, comp inputs, controller, student PCs.

Note: # of Registrar-conrolled rooms in () parentheses. * LH 1 included in Type IV count due to installed technology

Appendices/Tabs

A: All Classrooms

- B: Registrar-controlled Classrooms
- C: Classrooms by Type
- D: Classroom Types Per "Owner"

E: Cost to Upgrade a Classroom to Type III (Low-Range) or Type IV (Mid-Range)

F: Total Upgrade Project Costs

count

| Owner | Building | Room | 1 | Capacity | Type | E LastUpdate | Feature | ŝ |
|-----------|----------|------|------|----------|--------|--------------|---------------------------|---|
| Registrar | ACIV | | 6 | 45 | | | | |
| Registrar | ACIV | | 7 | 15 | | | | |
| Registrar | ACIV | | 10 | 15 | | | | |
| Registrar | ACIV | | 11 | 45 | | | | |
| Registrar | ACIV | | 13 | 50 | | 2006 | | |
| Registrar | ACIV | | 14 | 50 | | 2006 | | |
| Registrar | ACIV | | 15 | 50 | | 2000 | | |
| EDUC | ACIV | 1st | 10 | 50 | SP | 2008 | curriculum lab | |
| Registrar | ACIV | 131 | 108 | 25 | | | curriculum lab | |
| EDUC | ACIV | | 121 | 30 | | | | |
| Registrar | ACIV | | 145 | 65 | | | | |
| Registrar | ACIV | | 150 | 65 | | | | |
| Registrar | ACIV | | 151 | | | | | |
| Registrar | ACIV | | 207 | 65 | | 0000 | | |
| EDUC | ACIV | | 207 | 25 | | 2006 | | |
| Registrar | ACIV | | | 20 | 11 | | | |
| OIT | ACIV | | 210 | 30 | | | | |
| Registrar | ACIV | | 219 | | SP | | PC LAB - Language | |
| OIT | | 0405 | 305 | 40 | | | | |
| | ACIV | 219E | 100 | 25 | | | PC | |
| EDUC | ACIV | | 422 | | 111 | | seminar | |
| EDUC | ACIV | | 426 | | 11 | | Conference | |
| HIST | ADMN | | 711 | 20 | | 2006 | | |
| HIST | ADMN | | 729 | 20 | | | | |
| PRES | ADMN | | 1001 | 15 | | | | |
| PRES | ADMN | 2 | 1013 | 15 | | 2006 | | |
| BIOL | BS | | 4 | | IV | 2002 | | |
| Registrar | BS | | 120 | 72 | IV | | | |
| CHEM | CHEM | | 120 | | IV | 2004 | PC | |
| CHEM | CHEM | | 256 | 0 | IV | 2004 | | |
| CHEM | CHEM | | 272 | 0 | IV | 2004 | | |
| OIT | ENG | | 21 | | VI | | no projector | |
| OIT | ENG | | 22 | | SP | | distance learning | |
| OIT | ENG | | 23 | | SP | | distance learning | |
| OIT | ENG | | 25 | | SP | | Faculty/staff PC training | |
| OIT | ENG | | 104 | | VI | 2006 | | |
| OIT | ENG | | 122 | | VI | 2006 | | |
| OIT | ENG | | 333 | | VI | 2006 | | |
| OIT | ENG | | 336 | | VI | 2006 | MAC | |
| OIT | ENG | 104A | | | VI | 2006 | | |
| OIT | ENG | 122A | | | VI | 2006 | | |
| OIT | ENG | 5B | | | VI | | primary user ART | |
| OIT | FA | | 1 | | VI | | primary user ENGL | |
| OIT | FA | | 2 | | VI | | primary user ENGL | |
| Registrar | FA | | 6 | 60 | | | 2 SLIDE P | |
| MUSI | FA | | 11 | 60 | | | | |
| Registrar | FA | | 15 | 55 | | | | |
| Registrar | FA | | 18 | 55 | | | 2 SLIDE Proj | |
| MUSI | FA | | 118 | 00 | SP | | Music recital hall | |
| Registrar | FA | | 215 | 81 | | | 2 SLIDE Proj | |
| Registrar | FA | | 306 | 141 | | | 2 SLIDE Proj | |
| DANC | FA | | 317 | 141 | SP | | Dance studio | |
| THTR | FA | | 318 | | SP | | Theater practice room | |
| MUSI | FA | | 331 | | SP | | | |
| ENGL | FA | | 440 | | 3F | | Music instruction | |
| ANCS | FA | | 440 | | | | | |
| MUSI | FA | | | | | | Music recording of th | |
| HONR | FA | | 508 | | SP | | Music recording studio | |
| HONK | IA | | 529 | | II | | | |
| | | | | | | | | |

| Page 3 | 3 |
|--------|---|
|--------|---|

| Owner Registrar | Building FA | Room | | Туре | LastUpdate | Feature | count | |
|---|----------------|-------|----------|------|------------|------------|-------|---|
| CSEE | ITE | 530 | | | | - | | 1 |
| Registrar | ITE | 210 | | VI | | CompLab | | 1 |
| [1] - A - C - C - C - C - C - C - C - C - C | | 227 | 55 | | 2003 | | | 1 |
| Registrar | ITE | 229 | 55 | | 2003 | | | 1 |
| Registrar | ITE | 231 | 55 | | 2003 | | | 1 |
| Registrar | ITE | 233 | 55 | | 2003 | PC | | 1 |
| Registrar | ITE | 237 | 30 | | 2003 | | | 1 |
| ENGR | ITE | 238 | | VI | 2003 | CompLab | | 1 |
| Registrar | ITE | 239 | 30 | | 2003 | | | 1 |
| CSEE | ITE | 240 | | VI | 2003 | CompLab | | 1 |
| Registrar | ITE | 241 | 30 | IV | 2003 | | | 1 |
| COE | ITE | 243 | | VI | 2003 | CompLab | | 1 |
| CSEE | ITE | 375 | | VI | | CompLab | | 1 |
| IS | ITE | 406 | 30 | Ш | 2003 | | | 1 |
| PRES | ITE | 456 | | IV | 2003 | | | 1 |
| IS | ITE | 458 | | VI | | CompLab | | 1 |
| IS | ITE | 459 | 40 | IV | | Seminar | | 1 |
| IS | ITE | 467 | | VI | | CompLab | | 1 |
| IS | ITE | 468 | | VI | | CompLab | | 1 |
| IS | ITE | 469 | | VI | | CompLab | | 1 |
| IRC | ITE | 101A | | IV | 2003 | Complab | | 1 |
| IRC | ITE | 109A | | IV | 2003 | | | 1 |
| IRC | ITE | 110c | | IV | 2003 | | | 4 |
| IRC | ITE | 110c2 | | IV | 2003 | | | 1 |
| COE | ITE | 217B | | IV | | Cominer | | 1 |
| COE | ITE | 325B | 25 | | | Seminar | | 1 |
| IS | ITE | 404A | 18 | | | Conference | | 1 |
| Registrar | | | | | 2003 | | | 1 |
| | LH | 1 | 211 | | 2001 | | | 1 |
| Registrar | LH | 2 | 349 | | 2004 | | | 1 |
| Registrar | LH | 3 | 196 | | 2006 | | | 1 |
| Registrar | LH | 4 | 170 | | 1999 | | | 1 |
| Registrar | LH | 5 | 294 | | 2005 | | | 1 |
| Registrar | LH | 6 | 134 | | 2004 | | | 1 |
| Registrar | LH | 7 | 252 | | 2003 | | | 1 |
| Registrar | LH | 8 | 125 | | 2003 | | | 1 |
| Registrar | LH | 9 | 138 | | 2004 | | | 1 |
| OIT | LIB | 37 | | VI | | | | 1 |
| Registrar | MP | 8 | 36 | | | | | 1 |
| Registrar | MP | 10 | 36 | 11 | | | | 1 |
| Registrar | MP | 12 | 36 | 11 | | | | 1 |
| Registrar | MP | 101 | 64 | 11 | | | | 1 |
| Registrar | MP | 102 | 32 | [] | | | | 1 |
| Registrar | MP | 103 | 64 | 11 | | | | 1 |
| Registrar | MP | 104 | 64 | | | | | 1 |
| Registrar | MP | 105 | 32 | | | | | 1 |
| Registrar | MP | 106 | 64 | | | | | 1 |
| PSYC | MP | 322 | | III | | Conference | | 1 |
| MATH | MP | 401 | | 1 | | Combronico | | 1 |
| Registrar | MP | 012A | 18 | | | | | i |
| Registrar | PHYS | 107 | 24 | | 1999 | VHS | | 1 |
| Registrar | PHYS | 201 | 38 | | 2001 | 10 | | 1 |
| PHYS | PHYS | 401 | 30 44 | | | VUS | | 1 |
| | | | | | 1999 | VIO | | 1 |
| SHRV | PUP | 107 | | IV | 2004 | | | 1 |
| SOCY | PUP | 203 | | IV | 2004 | | | 1 |
| SOCY | PUP | 204 | | IV | 2004 | 20 | | 1 |
| Registrar | PUP | 206 | 50 | | 2004 | | | 1 |
| Registrar | PUP | 208 | 50 | IV | 2004 | PC | | 1 |
| | | | | | | | | |

| Ρ | a | g | е | 4 |
|---|---|---|---|---|
|---|---|---|---|---|

| Owner | Building | Room | Capacity | Туре | LastUpdate | Feature | count | |
|-----------|----------|------|----------|------|------------|------------------|-------|-----|
| POLISCI | PUP | 354 | | IV | 2004 | | | 1 |
| ECON | PUP | 360 | | VI | 2004 | CompLab | | 1 |
| ECON | PUP | 367 | 25 | IV | 2004 | | | 1 |
| POLICYSCI | PUP | 438 | 25 | IV | 2004 | | | 1 |
| POLICYSCI | PUP | 440 | | VI | 2004 | CompLab | | 1 |
| MIPAR | PUP | 451 | 20 | IV | 2004 | | | 1 |
| Registrar | SH | 3 | 72 | 1 | | | | 1 |
| Registrar | SH | 101 | 80 | IV | 2005 | | | 1 |
| Registrar | SH | 103 | 80 | IV | 2005 | | | 1 |
| Registrar | SH | 105 | 80 | IV | 2005 | | | 1 |
| Registrar | SH | 107 | 36 | 1 | | | | 1 |
| Registrar | SH | 108 | 40 | 1 | | | | 1 |
| Registrar | SH | 109 | 40 | 1 | | | | 1 |
| Registrar | SH | 110 | 40 | 1 | | | | 1 |
| Registrar | SH | 111 | 40 | 1 | | | | 1 |
| Registrar | SH | 112 | 45 | 1 | | | | 1 |
| Registrar | SH | 113 | 40 | 1 | | | | 1 |
| Registrar | SH | 114 | 40 | 1 | | | | 1 |
| Registrar | SH | 202 | 40 | IV | 2006 | | | 1 |
| Registrar | SH | 203 | 40 | IV | 2006 | | 12.7 | 1 |
| Registrar | SH | 204 | 40 | IV | 2006 | | | 1 |
| Registrar | SH | 205 | 40 | IV | 2006 | | | 1 |
| Registrar | SH | 206 | 40 | IV | 2006 | | | 1 |
| Registrar | SH | 207 | 36 | 1 | | | | 1 |
| Registrar | SH | 208 | 40 | I. | | | | 1 |
| Registrar | SH | 209 | 40 | 1 | | | | 1 |
| Registrar | SH | 210 | 16 | 1 | | | | 1 |
| PSYC | SH | 406 | 40 | 1 | | | | 1 |
| Registrar | SH | 409 | 72 | Ι. | | | | 1 |
| PSYC | SH | 414 | 50 | | | | | 1 |
| | | | | | | Total Room Count | 1.5 | 144 |

classroom_types_final.xls

Page 5

| \$Upgrade to Type IV(external) \$8,550 | 000,0¢ | \$6,550 \$6,550 | \$6 550 | \$6.550 | \$6,550 | \$6.550 | \$6.550 | \$6,550 | \$6,550 | \$6,550 | \$6,550 | \$6,550 | | \$6,550 | \$6,550 | \$6,550 | \$6,550 | \$6.550 | \$8,550 | \$8,550 | \$8,550 | \$6,550 | \$6,550 | \$6,550 | \$6,550 | \$6,550 | \$6,550 | \$6,550 | \$6,550 | \$6,550 | \$8,550 | \$6,550 | \$8,550 | \$8,550 | \$6,550 | \$8,550 | Becoming office space | \$258,354 | | |
|---|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------------|-----------|-----------|-----------|
| 20 | 4,000 | 4,550 | 4,550 | 4,550 | 4,550 | 4,550 | 4,550 | 4,550 | 4,550 | 4,550 | 4,550 | 4,550 | | 4,550 | 4,550 | 4,550 | 4,550 | 4,550 | 6,550 | 6,550 | 6,550 | 4,550 | 4,550 | 4,550 | 4,550 | 4,550 | 4,550 | 4,550 | 4,550 | 4,550 | 6,550 | 4,550 | 6,550 | 6,550 | 4,550 | 6,550 | | | \$2.452 | \$3,234 |
| \$Upgrade to TypelV(internal) 6,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Not recommended | | | |
| Feature | | | | | | | | | | | | | | | | | | | | | | | | 2 SLIDE P | | 2 SLIDE Proj | | | | | | | | | | | | | 1999 VHS | |
| LastUpdate | | | | | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | | | | | | 24 | 1996 | 2001 |
| Type I | | | | _ | _ | | | _ | _ | _ | | _ | | = | = | = | = | = | = | = | = | = | = | = | = | = | _ | = | | _ | _ | _ | _ | = | _ | _ | = | 2 | Ξ | Ξ |
| Capacity 72 36 | 40 | 404 | 40 | 40 | 45 | 40 | 40 | 36 | 40 | 40 | 16 | 72 | I Count | | 15 | 15 | 45 | 25 | 65 | 65 | | | | | | 55 | 24 | | 36 | 36 | 64 | 32 | 64 | | 32 | 64 | 18 | II Count | 24 | 40 |
| Room Cal 3 107 | 101 | 109 | 110 | 111 | 112 | 113 | 114 | 207 | 208 | 209 | 210 | 409 | Ŭ - | 9 | 7 | 10 | 1 | 108 | 145 | 150 | 151 | 210 | 305 | 9 | 15 | 18 | 530 | 8 | 10 | 12 | 101 | 102 | 103 | 104 | 105 | 106 | 012A | | 107 | 201 |
| Building SH SH | L HS | SH | SH | SH | SH | SH | SH | SH | SH | SH | SH | SH | | ACIV | FA | FA | FA | FA | MP | | PHYS | PHYS |
| Owner Registrar Registrar | Redistrar | Registrar | Registrar | Registrar | Registrar | Registrar | Registrar | Registrar | Registrar | Registrar | Registrar | Registrar | | Registrar | Registrar | Registrar | Registrar | Registrar | Registrar | Registrar | Registrar | Registrar | Registrar | Registrar | Registrar | | Registrar | Registrar |

| 6 | |
|----|---|
| × | |
| 0 | |
| en | |
| ã | |
| 2 | - |

classroom_types_final.xls

| 1 | u | 0 | | | |
|---|-----|---|---|--|--|
| | 200 | | , | | |
| 1 | ò | Ľ | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| ire \$Upgrade to TypeIV(internal) \$Upgrade to Type IV(external) \$5,687 | Curations below this line have been installed to at least Level IV, some need projector replacement sconer than others degistre ACIV 35 kl v 2006 Registre ACIV 13 56 kl v 2006 Registre ACIV 15 56 kl v 2006 Registre ACIV 16 56 kl v 2006 Registre ACIV 215 51 kl v 2006 Registre ACIV 215 51 kl v 2006 Registre ACIV 215 201 kl v 2006 Registre FA 216 100 kl v 2000 Registre FA 216 2001 kl v 2006 Registre FA 217 2001 kl v 2003 pc Registre FIF 227 24 kl v 2003 pc Registre FIF 231 201 kl v 2003 pc Registre FIF 231 201 kl v 2003 pc Registre FIF 231 2001 kl v 2003 pc Registre FIF 231 kl v 2003 pc 2004 pc Registre FIF 231 kl v 2003 pc 2003 pc Registre FI | |
|---|--|--|
| LastUpdate Feature | el IV, some need pl 2006 2006 2006 2006 2006 2003 PC 2003 PC 2003 PC 2003 PC 2003 PC 2003 PC 2003 PC 2003 PC 2003 PC 2003 PC 2004 PC 2005 2006 2006 2006 2006 2006 2006 2006 | |
| 3 | ast Leve 25 73 | |
| Capacity Type III Count | rinstalled to at le 55 IV 55 IV 55 IV 80 IV 141 IV 45 IV 20 IV 20 IV 25 IV 25 IV 26 IV 25 IV 25 IV 26 IV 26 IV 26 IV 26 IV 27 IV 26 IV 27 IV 26 IV 27 IV 26 IV 27 IV 26 IV 27 IV 27 IV 27 IV 26 IV 27 IV 2 | |
| Room | ne have been 13 14 14 14 14 207 207 207 207 207 207 207 207 | |
| Building | Pelow this line of the second | |
| Owner | Locations Registrar | |

| aye / | Ρ | а | g | е | 7 |
|-------|---|---|---|---|---|
|-------|---|---|---|---|---|

| Owner | Building | Room | Capacity | Туре |
|------------------------|--------------|------------|----------|------|
| HIST | ADMN | 729 | 20 | 1 |
| MATH | MP | 401 | | 1 |
| PRES | ADMN | 1001 | 15 | 1 |
| PSYC | SH | 406 | 40 | |
| PSYC | SH | 414 | 50 | |
| Registrar | SH | 3 | 72 | |
| Registrar | SH | 107 | 36 | |
| Registrar | SH | 108 | 40 | |
| Registrar | SH | 109 | 40 | |
| Registrar | SH | 110 | 40 | |
| Registrar | SH | 111 | 40 | |
| Registrar | SH | 112 | 45 | |
| Registrar | SH | 113 | 40 | |
| Registrar | SH | 114 | 40 | |
| Registrar | SH | 207 | 36 | |
| Registrar | SH | 208 | 40 | |
| Registrar | SH | 209 | 40 | |
| Registrar | SH | 210 | 16 | |
| Registrar | SH | 409 | 72 | 1 |
| ANCS | | 450 | l Count | |
| | FA | 450 | | 11 |
| EDUC | ACIV | 121 | 30 | |
| EDUC | ACIV | 208 | | 11 |
| EDUC | ACIV | 426 | | 11 |
| ENGL | FA | 440 | | 11 |
| HONR | FA | 529 | | 11 |
| MUSI | FA | 11 | 60 | |
| Registrar | ACIV | 6 | 45 | |
| Registrar | ACIV | 7 | 15 | |
| Registrar | ACIV | 10 | 15 | |
| Registrar | ACIV | 11 | 45 | |
| Registrar | ACIV | 108 | 25 | |
| Registrar | ACIV | 145 | 65 | |
| Registrar | ACIV | 150 | 65 | |
| Registrar | ACIV ACIV | 151 210 | 65 | |
| Registrar Registrar | ACIV | 305 | 30 40 | |
| Registrar | FA | 6 | 40 60 | |
| Registrar | FA | 15 | 55 | |
| Registrar | FA | 18 | 55 | |
| Registrar | FA | 530 | 24 | |
| Registrar | MP | 8 | 36 | |
| Registrar | MP | 10 | 36 | |
| Registrar | MP | 12 | 36 | |
| Registrar | MP | 101 | 64 | |
| Registrar | MP | 101 | 32 | |
| Registrar | MP | 102 | 52 64 | |
| Registrar | MP | 103 | 64 | |
| Registrar | MP | 104 | 32 | |
| Registrar | MP | 105 | 64 | |
| Registrar | MP | 012A | 64 18 | |
| Registral | | UIZA | Il Count | п |
| | | | ii Count | |

19

Conference

LastUpdate Feature

2 SLIDE P

2 SLIDE Proj

31

| IS ITE 406 30 III 2003 PC IS ITE 404A 18 III 2003 PHYS PHYS 401 44 III 1999 VHS PSYC MP 322 III Conference Registrar PHYS 107 24 III 1999 VHS Registrar PHYS 201 38 III 2001 BIOL BS 4 IV 2002 CHEM CHEM 120 IV 2004 CHEM CHEM 256 0 IV 2004 COE ITE 217B IV 2003 Seminar COE ITE 325B 25 IV 2003 Conference |
|---|
| PHYS PHYS 401 44 III 1999 VHS PSYC MP 322 III Conference Registrar PHYS 107 24 III 1999 VHS Registrar PHYS 201 38 III 2001 III Count 7 BIOL BS 4 IV 2002 CHEM CHEM 120 IV 2004 PC CHEM CHEM 256 0 IV 2004 PC CHEM CHEM 272 0 IV 2003 Seminar COE ITE 325B 25 IV 2003 Conference |
| PSYC MP 322 III Conference Registrar PHYS 107 24 III 1999 VHS Registrar PHYS 201 38 III 2001 III Count 7 BIOL BS 4 IV 2002 CHEM CHEM 120 IV 2004 PC CHEM CHEM 256 0 IV 2004 C CHEM CHEM 272 0 IV 2004 C COE ITE 217B IV 2003 Seminar 2003 Conference |
| Registrar PHYS 107 24 III 1999 VHS Registrar PHYS 201 38 III 2001 III Count 7 7 BIOL BS 4 IV 2002 CHEM CHEM 120 IV 2004 PC CHEM CHEM 256 0 IV 2004 COULDAND CHEM CHEM 272 0 IV 2004 COULDAND COULDAND |
| Registrar PHYS 201 38 III 2001 III Count 7 7 BIOL BS 4 IV 2002 CHEM CHEM 120 IV 2004 PC CHEM CHEM 256 0 IV 2004 CHEM CHEM 272 0 IV 2004 CHEM CHEM 272 0 IV 2004 COE ITE 217B IV 2003 Seminar COE ITE 325B 25 IV 2003 Conference |
| III Count 7 BIOL BS 4 IV 2002 CHEM CHEM 120 IV 2004 PC CHEM CHEM 256 0 IV 2004 CHEM CHEM 272 0 IV 2004 CHEM CHEM 272 0 IV 2004 COE ITE 217B IV 2003 Seminar COE ITE 325B 25 IV 2003 Conference |
| BIOL BS 4 IV 2002 CHEM CHEM 120 IV 2004 PC CHEM CHEM 256 0 IV 2004 CHEM CHEM 272 0 IV 2004 COE ITE 217B IV 2003 Seminar COE ITE 325B 25 IV 2003 Conference |
| CHEM CHEM 120 IV 2004 PC CHEM CHEM 256 0 IV 2004 CHEM CHEM 256 0 IV 2004 CHEM CHEM 272 0 IV 2004 COE ITE 217B IV 2003 Seminar COE ITE 325B 25 IV 2003 Conference |
| CHEM CHEM 256 0 IV 2004 CHEM CHEM 272 0 IV 2004 CHEM CHEM 272 0 IV 2004 COE ITE 217B IV 2003 Seminar COE ITE 325B 25 IV 2003 Conference |
| CHEM CHEM 272 0 IV 2004 COE ITE 217B IV 2003 Seminar COE ITE 325B 25 IV 2003 Conference |
| COEITE217BIV2003 SeminarCOEITE325B25 IV2003 Conference |
| COE ITE 325B 25 IV 2003 Conference |
| |
| |
| HIST ADMN 711 20 IV 2006 |
| IRC ITE 101A IV 2003 |
| IRC ITE 109A IV 2003 |
| IRC ITE 110c IV 2003 |
| IRC ITE 110c2 IV 2003 |
| IS ITE 459 40 IV 2003 Seminar |
| MIPAR PUP 451 20 IV 2004 |
| OIT ACIV 219E 25 IV PC |
| POLICYSCI PUP 438 25 IV 2004 |
| POLISCI PUP 354 IV 2004 |
| PRES ADMN 1013 15 IV 2006 |
| PRES ITE 456 IV 2003 |
| Registrar ACIV 13 50 IV 2006 |
| Registrar ACIV 14 50 IV 2006 |
| Registrar ACIV 15 50 IV 2006 |
| Registrar ACIV 207 25 IV 2006 |
| Registrar BS 120 72 IV |
| RegistrarFA21581 IV2 SLIDE Proj |
| Registrar FA 306 141 IV 2 SLIDE Proj |
| Registrar ITE 227 55 IV 2003 PC |
| Registrar ITE 229 55 IV 2003 PC |
| Registrar ITE 231 55 IV 2003 PC Registrar ITE 233 55 IV 2003 PC |
| Registrar ITE 233 55 IV 2003 PC Registrar ITE 237 30 IV 2003 |
| Registrar ITE 237 30 IV 2003 Registrar ITE 239 30 IV 2003 |
| Registrar ITE 235 30 IV 2003 Registrar ITE 241 30 IV 2003 |
| Registrar LH 1 211 IV 2001 |
| Registrar PUP 206 50 IV 2004 PC |
| Registrar PUP 208 50 IV 2004 PC |
| Registrar SH 101 80 IV 2005 |
| Registrar SH 103 80 IV 2005 |
| Registrar SH 105 80 IV 2005 |
| Registrar SH 202 40 IV 2006 |
| Registrar SH 203 40 IV 2006 |
| Registrar SH 204 40 IV 2006 |
| Registrar SH 205 40 IV 2006 |
| Registrar SH 206 40 IV 2006 |

| Owner SHRV SOCY SOCY | Building PUP PUP PUP | Room 107 203 204 | 3 4 | Type IV IV IV | | date 2004 2004 2004 | |
|--|---|---|---|---|----|--|--|
| DANC EDUC MUSI MUSI OIT OIT OIT OIT THTR | FA ACIV FA FA ACIV ENG ENG FA | 317 1st 118 33 508 219 22 23 23 25 25 25 25 25 25 25 25 25 25 25 25 25 | 3 3 9 25 2 3 5 | SP SP SP SP SP SP SP SP SP SP | 47 | | Dance studio curriculum lab Music recital hall Music instruction Music recording studio PC LAB - Language distance learning distance learning Faculty/staff PC training Theater practice room |
| | | | SP Count | | 10 | | • |
| Registrar Registrar Registrar Registrar Registrar Registrar Registrar | LH LH LH LH LH LH LH LH | | 3 196 4 170 5 294 6 134 7 252 3 125 | V V V V V | 8 | 2004 2006 1999 2005 2004 2003 2003 2003 | |
| COE | ITE | 243 | | VI | 0 | 2003 | CompLab |
| CSEE CSEE ECON ENGR IS IS IS OIT OIT OIT OIT OIT OIT OIT OIT OIT OIT | ITE ITE PUP ITE ITE ITE ITE ITE ENG ENG ENG ENG ENG ENG ENG FA FA LIB PUP | 210 240 375 360 238 458 467 468 469 24 104 122 333 336 104A 122A 5B | | VI VI VI VI VI VI VI VI VI VI VI VI VI V | 22 | 2003 2003 2004 2003 2003 2003 2003 2003 | CompLab CompLab CompLab CompLab CompLab CompLab CompLab CompLab no projector |
| | | | VI Count | : | 22 | | |

Grand Cou

144

| Summary 1 Type II | Owner ANCS | Building FA | Room 450 | Capacity | Type II | LastUpdate | Feature | | | |
|----------------------|-----------------|----------------|--------------------|----------|------------|------------------------|-------------------------|--|--|--|
| 1 Type IV | BIOL | BS | 4 | | IV | 2002 | | | | |
| 3 Type IV | CHEM | CHEM | | | IV | 2004 | PC | | | |
| | CHEM | CHEM | 256 | 0 | IV | 2004 | | | | |
| | CHEM | CHEM | 272 | 0 | IV | 2004 | | | | |
| 2 Type IV | COE | ITE | 217B | | IV | 2003 | Seminar | | | |
| 5 Type VI | COE | ITE | 325B | 25 | IV | 2003 | Conference | | | |
| | COE | ITE | 243 | | VI | 2003 | CompLab | | | |
| | ENGR | ITE | 238 | | VI | 2003 | CompLab | | | |
| | CSEE | ITE | 210 | | VI | 2003 | CompLab | | | |
| | CSEE | ITE | 240 | | VI | 2003 | CompLab | | | |
| | CSEE | ITE | 375 | | VI | 2003 | CompLab | | | |
| 1 Type SP | DANC | FA | 317 | | SP | | Dance studio | | | |
| 1 Type IV | ECON | PUP | 367 | 25 | IV | 2004 | | | | |
| 1 Type VI | ECON | PUP | 360 | | VI | 2004 | CompLab | | | |
| 3 Type II | EDUC | ACIV | 121 | 30 | 11 | (1994) (1994) # 001000 | | | | |
| 1 Type III | EDUC | ACIV | 208 | | 11 | | | | | |
| 1 Type SP | EDUC | ACIV | 426 | | 11 | | conference | | | |
| | EDUC | ACIV | 422 | | III | | seminar curriculum | | | |
| | EDUC | ACIV | 1st | | SP | | ab | | | |
| 1 Type II | ENGL | FA | 440 | | 11 | | | | | |
| 1 Type I | HIST | ADMN | 729 | 20 | 1 | | | | | |
| 1 Type IV | HIST | ADMN | 711 | 20 | IV | 2006 | | | | |
| 1 Type II | HONR | FA | 529 | | 11 | | | | | |
| 4 Type IV | IRC | ITE | 101A | | IV | 2003 | | | | |
| | IRC | ITE | 109A | | IV | 2003 | | | | |
| | IRC | ITE | 110c | | IV | 2003 | | | | |
| | IRC | ITE | 110c2 | | IV | 2003 | | | | |
| 2 Type III | IS | ITE | 406 | 30 | 111 | 2003 | PC | | | |
| 1 Type IV | IS | ITE | 404A | 18 | 111 | 2003 | | | | |
| 4 Type VI | IS | ITE | 459 | 40 | IV | 2003 | Seminar | | | |
| | IS | ITE | 458 | | VI | 2003 | CompLab | | | |
| | IS | ITE | 467 | | VI | 2003 | CompLab | | | |
| | IS | ITE | 468 | | VI | 2003 | CompLab | | | |
| | IS | ITE | 469 | | VI | 2003 | CompLab | | | |
| 1 Type 1 | MATH | MP | 401 | | 1 | | | | | |
| 1 Type IV | MIPAR | PUP | 451 | 20 | IV | 2004 | | | | |
| 1 Type II | MUSI | FA | 11 | 60 | 11 | | | | | |
| | | - | | | | | Music recital | | | |
| 3 Type SP | MUSI | FA | 118 | | SP | | nall | | | |
| | name provance i | | | | | | Music | | | |
| | MUSI | FA | 331 | | SP | | instruction | | | |
| | | | | | | | Music | | | |
| | | 12210 | | | 1200 | | recording | | | |
| | MUSI | FA | 508 | | SP | | tudio | | | |
| 1 Type III | OIT | ACIV | 219E | 25 | IV | | PC | | | |
| 1 Type IV | OIT | ENG | 21 | | VI | | no projector | | | |
| 11 Type VI | OIT | ENG | 104 | | VI | 2006 | | | | |
| 3 Type SP | OIT | ENG | 122 | | VI | 2006 | | | | |
| | OIT | ENG | 333 | | VI | 2006 | No. of Concession, Name | | | |
| | OIT | ENG | 336 | | VI | 2006 | MAC | | | |

| Page | e 11 |
|------|------|
| | |

| Summary Owner OIT OIT | | Building ENG ENG | Room 104A 122A | Capacity | Type VI VI | LastUpdate 2006 2006 | Feature | | | | |
|-----------------------------|------------|-------------------------------|-----------------------------|----------|-------------------------|---------------------------------------|----------------------------|--|--|--|--|
| | OIT | ENG | 5B | | VI | | primary user ART | | | | |
| | OIT | FA | 1 | | VI 1999 | | primary user ENGL | | | | |
| | OIT OIT | FA LIB | 2 37 | | VI VI | 1999 | primary user ENGL | | | | |
| | OIT | ENG | 22 | SP SP | | SP distance learning | | | | | |
| | OIT | ENG | 23 | | | distance learning Faculty/staff | | | | | |
| | OIT | ENG | 25 | | SP | | PCtraining PC LAB - | | | | |
| | OIT | ACIV | 219 | 25 | SP | | Language | | | | |
| 1 Type III | PHYS | PHYS | 401 | 44 | 111 | 1999 | VHS | | | | |
| 1 Type IV | POLICYSCI | PUP | 438 | 25 | IV | 2004 | | | | | |
| 1 Type VI | POLICYSCI | PUP | 440 | | VI | 2004 | CompLab | | | | |
| 1 Type IV | POLISCI | PUP | 354 | | IV | 2004 | | | | | |
| 1 Type I | PRES | ADMN | 1001 | 15 | 1 | | | | | | |
| 2 Type IV | PRES | ADMN | 1013 | 15 | IV | 2006 | | | | | |
| | PRES | ITE | 456 | | IV | 2003 | | | | | |
| 2 Type I | PSYC | SH | 406 | 40 | 1 | | | | | | |
| 1 Type III | PSYC | SH | 414 | 50 | 1 | | | | | | |
| | PSYC | MP | 322 | | III | | Conference | | | | |
| 1 Type IV | SHRV | PUP | 107 | | IV | 2004 | | | | | |
| 2 Type IV | SOCY | PUP | 203 | | IV | 2004 | | | | | |
| | SOCY | PUP | 204 | | IV | 2004 | | | | | |
| 1 Type SP | THTR | FA | 318 | | SP | | Theater practice com | | | | |
| i type of | mmx | IA | 510 | | 01 | | 5011 | | | | |

| l | l | 1 |
|---|---|---|
| | × | ٢ |
| • | C | 5 |
| | 2 | |
| | č | ź |
| | 2 | 2 |
| • | | Ç |

Upgrade_Cost

| 50-100 seat Est. Street I | \$182.00 | \$708.50 | \$195.00 | | \$75.40 | \$13.00 | \$97.50 | \$162.50 | \$20.80 | \$42.90 | | \$24.70 | \$14.30 | | \$227.50 | \$45.50 | \$6.50 | \$200.00 | \$130.00 | \$205.00 | \$74.00 | \$60.00 | \$45.00 | \$3,000 | \$250 | \$700 | \$70 | \$6,550 | \$2,000 | |
|---|---|--|---|---|---|------------------------------------|---|---|---|---|--|--------------------------------|--------------------------------|---|----------------|---|---|---------------------------|------------------------|--------------------------------------|---|--|-------------------|----------------------|---------------------------------------|--|---------------------|--|---|--|
| <= 50 seats Extended I Est. Street P: | | \$708.50 | \$195.00 | | \$75.40 | \$13.00 | \$97.50 | \$162.50 | \$20.80 | \$42.90 | | \$24.70 | \$14.30 | | \$227.50 | \$45.50 | \$6.50 | \$200.00 | \$130.00 | \$205.00 | \$74.00 | \$60.00 | \$45.00 | \$1,000 | \$250 | \$700 | \$70 | \$4,550 | \$2,000 | |
| Extended | | \$1,090.00 | \$300.00 | | \$116.00 | \$20.00 | \$150.00 | \$250.00 | \$32.00 | \$66.00 | | \$38.00 | \$22.00 | | \$350.00 | \$70.00 | \$10.00 | | | | | | | | | | | | | |
| MSRP | | \$1,090.00 | \$300.00 | | \$116.00 | \$20.00 | \$150.00 | \$250.00 | \$32.00 | \$66.00 | | \$38.00 | | | \$350.00 | | \$10.00 | | | | | | | | | | | | | |
| Part# | 42-103-03 | 60-818-02 | 60-668-01 | | 60-783-21 | 26-627-25 | 60-772-03 | 60-773-03 | 70-511-13 | 26-621-35 | | 26-626-35 | 70-519-23 | 10 | 42-095-35 | 70-526-02 | IN9107 | | | | | | | | | | | | | |
| : System 122 IP CM Description | Full-Range Ceiling Speaker with 4" Low Profile Back Can and Transformer: Pair | MediaLink TM Controller with IP Link®: Black | 22 Watt Two Channel Integrated Mini Power Amplifier | Two-Gang Wall Plate with Computer, S-Video, Composite Video, and Stereo Audio | Connectors; RJ 45 (CAT 6) Connectors: White | Pre-cut Speaker Cable: 25' (7.6 m) | Projector Drop Ceiling Mount: 1.5" NPT Adapter Plate, White | Universal Projector Mounting Bracket: White | Projector Mount Poles: 6" (15 cm), 1.5 NPT, White | Projector Communication Cable - Plenum: One Projector Communication Cable | Power, Switcher Communications and MPA Volume Control Cable - Plenum: One Power, | 5' Switcher, MPA, 35' (10.6 m) | Modular 2-Gang Mud Ring: White | Two Pre-terminated Cables for WPB 202 Wall Plate to Display or Switcher - Plenum: 35' (10.6 | (m | Low Profile Two-Product Projector Mounting Kit: Black | 3.5 mm Mini Stereo Male to 2 RCA Male, 6' (1.8 m) | white projector enclosure | mid-grade DVD/VHS deck | Middle Atlantic Sectional Rack Mount | Middle Atlantic Rack Mount utility drawer | Middle Atlantic Clamping Rackmount for DVD/VHS | blank rack panels | Basic data projector | internal UMBC - network install costs | internal UMBC - electrical install costs | miscellaneous parts | AV Services - install up to 10 projectors/summer | External vendor - projector, speakers, wiring | |
| System ID: 461 System Name: System 122 IP CM Qty Model Description | 1 SI 3CT LP | 1 MLC 104 IP Plus | 1 MPA 122 | | 1 WPB 202 | 1 SPK 18 cable-25' | 1 PCM 240 | 1 UPB 25 | 1 PMP 6 | 1 MLC IR/RS-232-35' | | 1 MLC PW/RS-232/VC-35' | 1 MR 200 | | 1 WPBC 202-35' | 1 PMK 250 | 1 IN9107 | 1 security device | 1 DVD/VHS deck | 1 DWR-10-17 | 1 UD2 | ۴ | 3 | 1 Data Projector | 1 Network | 1 Electric | 1 Miscellaneous | subtotal | 1 install | |

Page 12

| Upgrade Scenario #1: Ty | the second s | A DESCRIPTION OF THE OWNER OWNER | and a second | J; 100111 > 50 = | \$6,550) |
|-------------------------|--|--|--|------------------|----------|
| | FY08 | FY09 | FY10 | FY11 | TOTAL |
| Capital | | | | | |
| New Equipment Installs | 71,700 | 71,700 | 58,600 | 0 | 202,000 |
| Related Consulting | 28,000 | 28,000 | 24,000 | 0 | 80,000 |
| Related OIT Labor | 14,000 | 14,000 | 12,000 | 0 | 40,000 |
| Sub Total | 113,700 | 113,700 | 94,600 | 0 | 322,000 |
| Personnel | | | | | |
| FT Staff | 0 | 0 | 65,000 | 65,000 | 130,000 |
| Sub Total | 0 | 0 | 65,000 | 65,000 | 130,000 |
| Maintenance | | | | | |
| Operating* | 20,800 | 27,872 | 34,944 | 41,600 | 125,216 |
| Less L&A Savings | -10,000 | -20,000 | 0 | 0 | -30,000 |
| Sub Total | 10,800 | 7,872 | 34,944 | 41,600 | 95,216 |
| Total | 124,500 | 121,572 | 194,544 | 106,600 | 547,216 |

| Upgrade Scenario #2: Ty | EVOO | EV(00 | | | |
|-------------------------|---------|---------|---------|---------|---------|
| | FY08 | FY09 | FY10 | FY11 | TOTAL |
| Capital | | | | | |
| New Equipment Installs | 64,504 | 64,504 | 52,432 | 0 | 181,440 |
| Related Consulting | 28,000 | 28,000 | 24,000 | 0 | 80,000 |
| Related OIT Labor | 14,000 | 14,000 | 12,000 | 0 | 40,000 |
| Sub Total | 106,504 | 106,504 | 88,432 | 0 | 301,440 |
| Personnel | | | | | |
| FT Staff | 0 | 0 | 65,000 | 65,000 | 130,000 |
| Sub Total | 0 | 0 | 65,000 | 65,000 | 130,000 |
| Maintenance | | | | | |
| Operating* | 20,800 | 27,872 | 34,944 | 41,600 | 125,216 |
| Less L&A Savings | -10,000 | -20,000 | 0 | 0 | -30,000 |
| Sub Total | 10,800 | 7,872 | 34,944 | 41,600 | 95,216 |
| Total | 117,304 | 114,376 | 188,376 | 101,600 | 521,656 |