

Graduate Council Curriculum Committee
November 24, 2014
12:00 p.m., MH 395

Agenda

1. Welcome and call to order
2. Approval of the minutes from the last meeting
3. Review of Graduate Equipment Fee Requests
 - Computer Science MS and PhD – CECS
 - Computer Engineering MS and PhD – CECS
 - Digital Forensics MS – CECS
 - El Engineering MS and PhD – CECS
 - Materials Science and Engineering MS and PhD – CECS
 - Political Science MA – COS
 - Security Studies PhD – COS
 - Sociology PhD-COS
4. Review of Materials & Supplies Fee Requests
5. Adjournment

Members of the Graduate Council Curriculum Committee:

Deborah Breiter, Chair, RCHM
Steven Collins, COS
Paul Dombrowski, CAH
Charles Kelliher, CBA
Art Weeks, CECS
Steven Ebert, COM
Linda Gibson-Young, CON
Guifang Li, COP
Donna Malvey, COHPA
Joyce Nutta, CEHP
Terrie Sypolt, LIB
Lucretia Cooney, GSA
Jana Jasinski, CGS Liaison

Graduate Equipment Fee Request Form

Forward to your college office

This form is to be used for requests to add, change, or delete equipment fee requests for a program. All requests for the next catalog must be submitted by October 24 for the November agenda deadline of the Graduate Council Committee (Dean Ross Hinkle).

Request routing: 1) Department Chair to College Dean's Office; 2) Dean's Office; 3) Graduate Council Curriculum Committee; 4) A list of approved requests will be forwarded to the provost for final approval. 5) University Board of Trustees — information only.

Under the rules of the Board of Trustees for the University of Central Florida, equipment fees may be assessed for the use and replacement of equipment. Fees take effect in the fall semester of each year. Departments must maintain detailed accounting of all expenditures and report them to the Dean of the Graduate College on July 1 of each year. Equipment Fee maximum per semester: \$90.00 Full-time; \$45.00 Part-time.

Use one form for each program request:

Date Submitted: 10/15/2014

College: Engineering & Computer Science

Department: Electrical Engineering & Computer Science

Submitted by: Michael Powell

Degree program: Computer Science *ms & phd*

Equipment Fees:

Fall graduate student enrollment: 215

Full-time 176

Part-time 39

Fee amount per semester: ~~\$4,850.72~~ \$6647.

Full-time \$34

Part-time \$17

Provide detailed Justification for the Request:

(use additional sheet if necessary)

A fee is required to help maintain and update the equipment used by the program. Most items have a 3-5 year life span. Most of the item costs are split across multiple programs based on the usage by each program. Please see the attachments for the breakdown of costs per item.

Provide detailed cost information about the expenses for which the fee is to be assessed.

(use additional sheet if necessary)

| Equipment | Cost | Lifetime |
|------------------------|------|----------|
| See Attached | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Total of Costs: | | |

Equipment replacement/upgrade cost/year: \$13,859.20

| Maintenance | Cost | Lifetime |
|---|------|----------|
| 10% contingency added to total estimated costs to cover any unexpected costs. | | |
| All hardware purchases include warranties to cover the life of the hardware. | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Total of Costs: | | |

Maintenance plans and maintenance cost/year: These are included in the cost of the hardware listed in the attachment.

Total cost for equipment replacement, upgrade, maintenance, and maintenance contracts per year: _____

Any special conditions or exemptions must be identified:

Payment DetailsAccount Number to Deposit Fees: 16400804

Item Type: _____

Contact Person: Michael PowellPhone Number: 407-882-1337**RECOMMENDED APPROVAL (all approval levels must be signed)**

| | | | |
|----------------------------|--------------------------------------|--------------------------------------|----------------------|
| Department Chair | (Print) <u>Gary T. Leavens</u> | (Signature) <u>Gary T. Leavens</u> | Date <u>10/16/14</u> |
| College Academic Standards | (Print) <u>Charles H. Reilly</u> | (Signature) <u>Charles H. Reilly</u> | Date <u>10/23/14</u> |
| College Dean | (Print) <u>Michael Georgiopoulos</u> | (Signature) <u>[Signature]</u> | Date <u>10/23/14</u> |
| Graduate Council | (Print) _____ | (Signature) _____ | Date _____ |
| Graduate Dean | (Print) _____ | (Signature) _____ | Date _____ |

Approval

Provost and Vice President for Academic Affairs: _____ Date _____

Explanation for Attached Spreadsheets

The top of each sheet has a usage percentage for each program. Each room has a sheet that shows the breakdown of the annual cost each program has to cover. There are two sheets, HEC-102 Servers and HEC-322 Routers, that show a broken down itemization of components in their corresponding rooms. HEC-208 is listed slightly differently, as a portion of the equipment is used for research. The percentages for teaching/research were determined by Dr. LaViola.

The General spreadsheet shows items and personnel that are utilized in more than one room. The Total spreadsheet shows the information gathered from the room spreadsheets, and calculates the fees for each program. Required Fee is the minimum amount required to cover costs and the listed contingency percentage. The Requested Fee shows what we would like to charge the students. Beneath the Requested Fee you can see the difference between the required fee to maintain our current operations, and the amount we will receive. To the right of the Requested Fee calculations, you can see what our actual contingency percentage will be with the rounding in place, and you can see how much we receive for our contingency fund.

Abbreviations on the spreadsheet:

AC – Annual Cost

UGCS – Undergraduate Computer Science

GCS – Graduate Computer Science

IT – Information Technology

MSDF – Digital Forensics

HEC-208

| UGCS | GCS | IT | MSDF | Other |
|-------|-------|------|------|-------|
| 50.0% | 50.0% | 0.0% | 0.0% | 0.0% |

| Item | Quantity | Item Cost | Total Cost | Estimated Life | Teaching % |
|---------------------|----------|-------------|-------------|----------------|------------|
| TV/Wall PCs | 1 | \$50,000.00 | \$50,000.00 | 5 | 10% |
| 35" TV | 8 | \$1,500.00 | \$12,000.00 | 3 | 50% |
| 80" TV | 1 | \$4,000.00 | \$4,000.00 | 3 | 25% |
| 55" Pixel Monitor | 1 | \$7,000.00 | \$7,000.00 | 3 | 20% |
| Video Game Consoles | 20 | \$365.00 | \$7,300.00 | 5 | 50% |
| Desktop PC | 12 | \$2,000.00 | \$24,000.00 | 10 | 50% |
| Tablets | 10 | \$1,500.00 | \$15,000.00 | 10 | 50% |
| 3D Projector | 1 | \$2,000.00 | \$2,000.00 | 10 | 10% |
| Darwin OP? | 2 | \$12,000.00 | \$24,000.00 | 5 | 25% |
| Robotic Arm | 1 | \$50,000.00 | \$50,000.00 | 7 | 25% |

| Total Annual Cost | Annual Cost Per Item |
|-------------------|----------------------|
| \$10,000.00 | \$10,000.00 |
| \$4,000.00 | \$500.00 |
| \$1,333.33 | \$1,333.33 |
| \$2,333.33 | \$2,333.33 |
| \$1,460.00 | \$73.00 |
| \$2,400.00 | \$200.00 |
| \$1,500.00 | \$150.00 |
| \$200.00 | \$200.00 |
| \$4,800.00 | \$2,400.00 |
| \$7,142.86 | \$7,142.86 |

| AC-UGCS | AC-GCS | AC-IT | AC-MSDF | AC-Other |
|------------|------------|--------|---------|----------|
| \$5,000.00 | \$5,000.00 | \$0.00 | \$0.00 | \$0.00 |
| \$2,000.00 | \$2,000.00 | \$0.00 | \$0.00 | \$0.00 |
| \$666.67 | \$666.67 | \$0.00 | \$0.00 | \$0.00 |
| \$1,166.67 | \$1,166.67 | \$0.00 | \$0.00 | \$0.00 |
| \$730.00 | \$730.00 | \$0.00 | \$0.00 | \$0.00 |
| \$1,200.00 | \$1,200.00 | \$0.00 | \$0.00 | \$0.00 |
| \$750.00 | \$750.00 | \$0.00 | \$0.00 | \$0.00 |
| \$100.00 | \$100.00 | \$0.00 | \$0.00 | \$0.00 |
| \$2,400.00 | \$2,400.00 | \$0.00 | \$0.00 | \$0.00 |
| \$3,571.43 | \$3,571.43 | \$0.00 | \$0.00 | \$0.00 |

| |
|-------|
| Total |
|-------|

| |
|--------------|
| Total Cost |
| \$195,300.00 |

| |
|-------------------|
| Total Annual Cost |
| \$35,169.52 |

| | | |
|------------|-------|-------------|
| Teaching % | 31.5% | \$11,078.40 |
| Research % | 68.5% | \$24,091.12 |

| AC-UGCS | AC-GCS | AC-IT | AC-MSDF | AC-Other |
|-------------|-------------|--------|---------|----------|
| \$17,584.76 | \$17,584.76 | \$0.00 | \$0.00 | \$0.00 |
| \$5,539.20 | \$5,539.20 | \$0.00 | \$0.00 | \$0.00 |

General

| Item | Quantity | Item Cost | Total Cost | Estimated Life |
|--------------------|----------|-------------|-------------|----------------|
| Systems Programmer | 1 | \$64,589.46 | \$64,589.46 | 1 |
| Lab Monitor | 1 | \$15,600.00 | \$15,600.00 | 1 |
| FTK License | 1 | \$5,000.00 | \$5,000.00 | 1 |
| Server | 1 | \$13,000.00 | \$13,000.00 | 5 |

| UGCS | ECGS | IT | MSDF | Other |
|-------|-------|-------|--------|-------|
| 75.0% | 0.0% | 20.0% | 5.0% | 0.0% |
| 50.0% | 50.0% | 0.0% | 0.0% | 0.0% |
| 0.0% | 0.0% | 0.0% | 100.0% | 0.0% |
| 20.0% | 20.0% | 10.0% | 50.0% | 0.0% |

| Total Annual Cost | Annual Cost Per Item |
|-------------------|----------------------|
| \$64,589.46 | \$64,589.46 |
| \$15,600.00 | \$15,600.00 |
| \$5,000.00 | \$5,000.00 |
| \$2,600.00 | \$2,600.00 |

| AC-UGCS | AC-ECGS | AC-IT | AC-MSDF | AC-Other |
|-------------|------------|-------------|------------|----------|
| \$48,442.10 | \$0.00 | \$12,917.89 | \$3,229.47 | \$0.00 |
| \$7,800.00 | \$7,800.00 | \$0.00 | \$0.00 | \$0.00 |
| \$0.00 | \$0.00 | \$0.00 | \$5,000.00 | \$0.00 |
| \$520.00 | \$520.00 | \$260.00 | \$1,300.00 | \$0.00 |

| Title | Pay | Fringe % | Total |
|--------------------|-------------|----------|-------------|
| Systems Programmer | \$50,499.97 | 27.90% | \$64,589.46 |

| Total | Total Cost |
|-------|-------------|
| | \$98,189.46 |

| Average Usage | UGCS | ECGS | IT | MSDF | Other |
|---------------|-------|-------|------|-------|-------|
| | 36.3% | 17.5% | 7.5% | 38.8% | 0.0% |

| Total Annual Cost |
|-------------------|
| \$87,789.46 |

| Annual | AC-UGCS | AC-ECGS | AC-IT | AC-MSDF | AC-Other |
|--------|-------------|------------|-------------|------------|----------|
| | \$56,762.10 | \$8,320.00 | \$13,177.89 | \$9,529.47 | \$0.00 |

Total

| Room | Total Cost | Total Annual Cost | Contingency |
|----------|--------------|-------------------|-------------|
| ENG1-187 | \$88,600.00 | \$19,462.86 | \$973.14 |
| ENG1-188 | \$88,600.00 | \$19,462.86 | \$973.14 |
| HEC-102 | \$126,256.18 | \$23,878.38 | \$1,193.92 |
| HEC-208 | \$195,300.00 | \$11,078.40 | \$553.92 |
| HEC-308 | \$92,800.00 | \$19,982.86 | \$999.14 |
| HEC-322 | \$179,019.33 | \$40,498.53 | \$2,024.93 |
| General | \$98,189.46 | \$87,789.46 | \$4,389.47 |

| AC-UGCS | AC-GCS | AC-IT | AC-MSDF | AC-Other |
|-------------|------------|-------------|------------|----------|
| \$15,570.29 | \$0.00 | \$3,892.57 | \$0.00 | \$0.00 |
| \$15,570.29 | \$0.00 | \$3,892.57 | \$0.00 | \$0.00 |
| \$23,878.38 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| \$5,539.20 | \$5,539.20 | \$0.00 | \$0.00 | \$0.00 |
| \$14,987.14 | \$0.00 | \$4,995.71 | \$0.00 | \$0.00 |
| \$3,992.65 | \$0.00 | \$34,509.55 | \$1,996.33 | \$0.00 |
| \$56,762.10 | \$8,320.00 | \$13,177.89 | \$9,529.47 | \$0.00 |

| Contingency Percentage |
|------------------------|
| 5.00% |
| Round Up Requested Fee |
| No |

| Total Cost | Total Annual Cost | Total Contingency |
|------------------|-------------------|-------------------|
| \$868,764.97 | \$222,153.35 | \$11,107.67 |
| With Contingency | | |
| Contingency | | |

| AC-UGCS | AC-GCS | AC-IT | AC-MSDF | AC-Other |
|--------------|-------------|-------------|-------------|----------|
| \$136,300.05 | \$13,859.20 | \$60,468.30 | \$11,525.80 | \$0.00 |
| \$143,115.05 | \$14,552.16 | \$63,491.72 | \$12,102.09 | \$0.00 |
| \$6,815.00 | \$692.96 | \$3,023.42 | \$576.29 | \$0.00 |

| UGCS-Full | UGCS-Part | GCS-Full | GCS-Part | IT-Full | IT-Part | MSDF-Full | MSDF-Part |
|-------------------|-----------|----------|----------|---------|---------|-----------|-----------|
| Spring 2014 | 789 | 326 | 132 | 175 | 395 | 275 | 85 |
| Summer 2014 | 38 | 632 | 65 | 19 | 33 | 404 | 13 |
| Fall 2014 Prelim | 979 | 405 | 176 | 215 | 429 | 276 | 16 |
| Total | 1806 | 1363 | 373 | 409 | 857 | 955 | 36 |
| Avg. Per Semester | 602 | 454 | 124 | 136 | 286 | 318 | 12 |

| UGCS-Full | UGCS-Part | GCS-Full | GCS-Part | IT-Full | IT-Part | MSDF-Full | MSDF-Part |
|--------------|--------------|-------------|------------|------------|-------------|-------------|------------|
| Required Fee | \$57.53 | \$28.77 | \$25.20 | \$12.60 | \$47.58 | \$23.79 | \$81.77 |
| Total Fee | \$103,905.84 | \$39,209.21 | \$9,399.06 | \$5,153.10 | \$40,773.62 | \$22,718.09 | \$2,943.75 |
| Per Semester | \$34,635.28 | \$13,069.74 | \$3,133.02 | \$1,717.70 | \$13,591.21 | \$7,572.70 | \$981.25 |

| UGCS-Full | UGCS-Part | GCS-Full | GCS-Part | IT-Full | IT-Part | MSDF-Full | MSDF-Part |
|-----------------------------|--------------|-------------|------------|------------|-------------|-------------|------------|
| Requested Fee | \$57.00 | \$28.00 | \$25.00 | \$12.00 | \$47.00 | \$23.00 | \$81.00 |
| Total Gained | \$102,942.00 | \$38,164.00 | \$9,325.00 | \$4,908.00 | \$40,279.00 | \$21,965.00 | \$2,916.00 |
| Per Semester | \$34,314.00 | \$12,721.33 | \$3,108.33 | \$1,636.00 | \$13,426.33 | \$7,321.67 | \$972.00 |
| Difference Required/Request | -\$963.84 | -\$1,045.21 | -\$74.06 | -\$245.10 | -\$494.62 | -\$753.09 | -\$27.75 |

| Final Contingency % |
|---------------------|
| 3.29% |
| Contingency Amount |
| \$7,305.65 |

Graduate Equipment Fee Request Form

Forward to your college office

This form is to be used for requests to add, change, or delete equipment fee requests for a program. All requests for the next catalog must be submitted by October 24 for the November agenda deadline of the Graduate Council Committee (Dean Ross Hinkle).

Request routing: 1) Department Chair to College Dean's Office; 2) Dean's Office; 3) Graduate Council Curriculum Committee; 4) A list of approved requests will be forwarded to the provost for final approval. 5) University Board of Trustees — information only.

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Use one form for each program request:

Date Submitted: 10/22/2014 College: Engr. and Computer Science
 Department: EECS Dept., ECE Division Submitted by: Dr. Zhihua Qu
 Degree program: Computer Engineering M.S. and Ph. D.

Equipment Fees:

Fall graduate student enrollment: 85 Full-time 55 Part-time 30
 Fee amount per semester: \$1960. Full-time 28 Part-time 14

Provide detailed Justification for the Request: (use additional sheet if necessary)

See attachment for affected courses.

Provide detailed cost information about the expenses for which the fee is to be assessed. (use additional sheet if necessary)

| Equipment | Cost | Lifetime |
|-------------------------------------|------|----------|
| See attachment for itemized details | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Total of Costs: | | |

Date _____

Laboratory Equipment Cost Report

Department of Electrical Engineering and Computer Science

Revision Date: September 9, 2014

| Room | Annualized Cost | Cost | EE BS | CpE BS | EE Grad | CpE Grad |
|-----------------|----------------------|------------------------|-------|--------|---------|----------|
| ENGR-120 | \$ 2,310.19 | \$ 47,734.00 | 0% | 0% | 100% | 0% |
| ENGR-163 | \$ 5,846.81 | \$ 170,824.00 | 0% | 0% | 100% | 0% |
| ENGR-257 | \$ 41,158.08 | \$ 255,559.50 | 53% | 40% | 2% | 5% |
| ENGR-274 | \$ 23,525.73 | \$ 83,429.00 | 39% | 31% | 15% | 15% |
| ENGR-456 | \$ 57,595.41 | \$ 264,078.20 | 55% | 45% | 0% | 0% |
| ENGR-461 | \$ 25,129.48 | \$ 327,368.00 | 30% | 0% | 70% | 0% |
| ENGR-471 | \$ 14,299.06 | \$ 140,507.00 | 55% | 45% | 0% | 0% |
| ENGR-474 | \$ 28,090.08 | \$ 258,219.59 | 55% | 45% | 0% | 0% |
| HEC-302 | \$ 1,691.51 | \$ 261,415.00 | 0% | 0% | 100% | 0% |
| HEC-338 | \$ 13,173.00 | \$ 53,092.00 | 50% | 40% | 5% | 5% |
| HEC-406 | \$ 6,998.79 | \$ 271,240.00 | 0% | 0% | 100% | 0% |
| Senior Engineer | \$ 80,000.00 | \$ 80,000.00 | 45% | 40% | 15% | 0% |
| Total | \$ 299,818.13 | \$ 2,213,466.29 | | | | |

BSEE Only

| Room | Annualized Cost | %UG | Fee Cost |
|-----------------|----------------------|------|----------------------|
| ENGR-257 | \$ 41,158.08 | 55% | \$ 22,636.94 |
| ENGR-274 | \$ 23,525.73 | 39% | \$ 9,175.04 |
| ENGR-456 | \$ 57,595.41 | 55% | \$ 31,677.48 |
| ENGR-461 | \$ 25,129.48 | 30% | \$ 7,538.84 |
| ENGR-471 | \$ 14,299.06 | 55% | \$ 7,864.48 |
| ENGR-474 | \$ 28,090.08 | 55% | \$ 15,449.55 |
| HEC-338 | \$ 13,173.00 | 50% | \$ 6,586.50 |
| HEC-406 | \$ 6,998.79 | 100% | \$ 6,998.79 |
| Senior Engineer | \$ 80,000.00 | 45% | \$ 36,000.00 |
| Total | \$ 289,969.63 | | \$ 143,927.61 |

| Status | AY Total | Fall 2014 | Summer 2014 | Spring 2014 |
|--------------|-------------|------------|-------------|-------------|
| Full Time | 1010 | 504 | 10 | 496 |
| Part Time | 1027 | 290 | 457 | 280 |
| Total | 2037 | 794 | 467 | 776 |

| | | |
|-----------|-------|----------------------------|
| FT EQ Fee | \$ 94 | Fee=Fee Cost / (FT + PT/2) |
| PT EQ Fee | \$ 47 | |

BCpEE Only

| Room | Annualized Cost | %UG | Fee Cost |
|-----------------|----------------------|-----|----------------------|
| ENGR-257 | \$ 41,158.08 | 45% | \$ 18,521.13 |
| ENGR-274 | \$ 23,525.73 | 31% | \$ 7,292.98 |
| ENGR-456 | \$ 57,595.41 | 45% | \$ 25,917.93 |
| ENGR-471 | \$ 14,299.06 | 45% | \$ 6,434.58 |
| ENGR-474 | \$ 28,090.08 | 45% | \$ 12,640.54 |
| HEC-338 | \$ 13,173.00 | 40% | \$ 5,269.20 |
| Senior Engineer | \$ 80,000.00 | 40% | \$ 32,000.00 |
| Total | \$ 257,841.36 | | \$ 108,076.36 |

| Status | AY Total | Fall 2014 | Summer 2014 | Spring 2014 |
|--------------|-------------|------------|-------------|-------------|
| Full Time | 908 | 496 | 11 | 401 |
| Part Time | 771 | 194 | 392 | 185 |
| Total | 1679 | 690 | 403 | 586 |

| | | |
|-----------|-------|----------------------------|
| FT EQ Fee | \$ 84 | Fee=Fee Cost / (FT + PT/2) |
| PT EQ Fee | \$ 42 | |

Graduate EE Only

| Room | Annualized Cost | %G | Fee Cost |
|-----------------|----------------------|------|---------------------|
| ENGR-120 | \$ 2,310.19 | 100% | \$ 2,310.19 |
| ENGR-163 | \$ 5,846.81 | 100% | \$ 5,846.81 |
| ENGR-274 | \$ 23,525.73 | 15% | \$ 3,528.86 |
| ENGR-461 | \$ 25,129.48 | 70% | \$ 17,590.64 |
| ENGR-302 | \$ 1,691.51 | 100% | \$ 1,691.51 |
| HEC-338 | \$ 13,173.00 | 5% | \$ 658.65 |
| HEC-406 | \$ 6,998.79 | 100% | \$ 6,998.79 |
| Senior Engineer | \$ 80,000.00 | 15% | \$ 12,000.00 |
| Total | \$ 158,675.51 | | \$ 50,625.44 |

| Status | AY Total | Fall 2014 | Summer 2014 | Spring 2014 |
|--------------|------------|------------|-------------|-------------|
| Full Time | 337 | 152 | 56 | 129 |
| Part Time | 135 | 55 | 30 | 50 |
| Total | 472 | 207 | 86 | 179 |

| | | |
|-----------|--------|----------------------------|
| FT EQ Fee | \$ 125 | Fee=Fee Cost / (FT + PT/2) |
| PT EQ Fee | \$ 63 | |

Graduate CpE Only

| Room | Annualized Cost | %G | Fee Cost |
|-----------------|----------------------|-----|--------------------|
| ENGR-274 | \$ 23,525.73 | 15% | \$ 3,528.86 |
| HEC-338 | \$ 13,173.00 | 5% | \$ 658.65 |
| Senior Engineer | \$ 80,000.00 | 0% | \$ - |
| Total | \$ 116,698.73 | | \$ 4,187.51 |

| Status | AY Total | Fall 2013 | Summer 2013 | Spring 2013 |
|--------------|------------|-----------|-------------|-------------|
| Full Time | 106 | 55 | 10 | 41 |
| Part Time | 82 | 30 | 19 | 33 |
| Total | 188 | 85 | 29 | 74 |

| | | |
|-----------|-------|----------------------------|
| FT EQ Fee | \$ 28 | Fee=Fee Cost / (FT + PT/2) |
| PT EQ Fee | \$ 14 | |

ENGR-120 Probe Station Laboratory

EEE-5332C Thin Film Technology

EEE-5356C Fabrication of Solid-State Devices

Revision Date: September 9, 2014

| Item | Annualized Cost | Cost | Class Use | Purchased | Replace |
|---|--------------------|---------------------|-----------|-----------|---------|
| 2 Probe Stations | \$ 216.56 | \$ 15,400.00 | 90% | 1986 | 2050 |
| 4 Probe Tips, Lucas Signatone SE-20TB | \$ 32.00 | \$ 160.00 | 100% | 2010 | 2015 |
| 3 Micropositioners, Lucas Signatone S-725SRM | \$ 176.70 | \$ 1,767.00 | 100% | 2010 | 2020 |
| 3 Micropositioners, Lucas Signatone S-725SLM | \$ 176.70 | \$ 1,767.00 | 100% | 2010 | 2020 |
| 8 Probe Tip Holders, Lucas Signatone U-S-1-CB | \$ 64.00 | \$ 640.00 | 100% | 2010 | 2020 |
| 2 Curve Tracers | \$ 207.69 | \$ 3,000.00 | 90% | 2002 | 2015 |
| C-V Plotter, HP 4280A | \$ 789.47 | \$ 15,000.00 | 100% | 2001 | 2020 |
| Monochromatic Profilometer, Spectroline | \$ 147.06 | \$ 5,000.00 | 100% | 1986 | 2020 |
| Electronic Lock | \$ 500.00 | \$ 5,000.00 | 100% | 2013 | 2023 |
| Total | \$ 2,310.19 | \$ 47,734.00 | | | |

ENGR-163 Microelectronics Laboratory

EEE-5332C Thin Film Technology

EEE-5356C Fabrication of Solid-State Devices

Revision Date: September 9, 2014

Some equipment items are used for both instruction and research.
The percentage of instructional use is shown.

| Item | Annualized Cost | Cost | Class Use | Purchased | Replace |
|----------------------------------|--------------------|----------------------|-----------|-----------|---------|
| Edwards Diffusion Evaporator | \$ 35.71 | \$ 1,500.00 | 100% | 1983 | 2025 |
| Bruce Oxidation Furnace | \$ 109.29 | \$ 5,100.00 | 90% | 1983 | 2025 |
| Bruce Diffusion Furnaces | \$ 218.57 | \$ 10,200.00 | 90% | 1983 | 2025 |
| Furnace Maintenance | \$ 250.00 | \$ 250.00 | 90% | 1983 | 2025 |
| Headway Resist Spinner | \$ 177.75 | \$ 6,715.00 | 90% | 1986 | 2020 |
| 3 Resist Bake Ovens | \$ 103.85 | \$ 4,500.00 | 90% | 1986 | 2025 |
| Karlsuss Mask Aligner | \$ 669.23 | \$ 29,000.00 | 90% | 1986 | 2025 |
| 3-Chamber Cryo system | \$ 42.19 | \$ 3,000.00 | 90% | 1986 | 2050 |
| 3-Chamber Cryo system Upgrades | \$ 900.00 | \$ 2,000.00 | 90% | 2013 | 2015 |
| Jandel 4pt Probe | \$ 225.00 | \$ 5,000.00 | 90% | 2005 | 2025 |
| 4 Vacuum Pumps | \$ 507.78 | \$ 11,284.00 | 90% | 2010 | 2030 |
| Profilometer, Bruker Dektek 150 | \$ 1,119.94 | \$ 49,775.00 | 90% | 2010 | 2050 |
| Electronic Lock | \$ 500.00 | \$ 5,000.00 | 100% | 2013 | 2023 |
| Veeco profile meter, Wyko NT3300 | \$ 654.76 | \$ 27,500.00 | 100% | 1983 | 2025 |
| 2 - Microscope, Unitron | \$ 85.11 | \$ 4,000.00 | 100% | 1983 | 2030 |
| 4-Point probe, Magnetron 3-700 | \$ 135.14 | \$ 5,000.00 | 100% | 1983 | 2020 |
| Laptop Computer | \$ 62.50 | \$ 500.00 | 100% | 2012 | 2020 |
| Refrigerator | \$ 50.00 | \$ 500.00 | 100% | 2010 | 2020 |
| Total | \$ 5,846.81 | \$ 170,824.00 | | | |

ENGR-257 Computing Systems Laboratory

EEE 3342 Introduction to Digital Circuits & Systems

EEL 3801C Computer Organization

EEL 4742 Embedded Systems

EEE 5722C FPGA Design

EEL 4612C Robust Controls

Revision Date: September 9, 2014

| Item | Annualized Cost | Cost | Purchased | Replace |
|-------------------------------------|---------------------|----------------------|-----------|---------|
| 41 Laboratory Computers | \$ 6,833.33 | \$ 41,000.00 | 2009 | 2015 |
| 20 Digital Trainer, Global PB505 | \$ 400.00 | \$ 10,000.00 | 2000 | 2025 |
| 42 Lab Stools | \$ 900.00 | \$ 12,600.00 | 2000 | 2014 |
| 24 Logic Analyzers for Workstations | \$ 2,403.50 | \$ 4,807.00 | 2014 | 2016 |
| 1 Textronics Logic Analyzer | \$ 1,982.20 | \$ 19,822.00 | 2014 | 2024 |
| 2 Large Screen Monitors | \$ 1,666.67 | \$ 10,000.00 | 2014 | 2020 |
| 20 Zedboards | \$ 1,395.63 | \$ 5,582.50 | 2014 | 2018 |
| 15 Kintex-7 Boards | \$ 6,356.25 | \$ 25,425.00 | 2014 | 2018 |
| 12 Lab Benches | \$ 349.17 | \$ 10,475.00 | 2010 | 2040 |
| 2 Electronic Lock | \$ 1,000.00 | \$ 10,000.00 | 2013 | 2023 |
| 2 Security Cameras | \$ 200.00 | \$ 2,000.00 | 2011 | 2021 |
| 8 Quanser Linear Controls Stations | \$ 16,944.67 | \$ 101,668.00 | 2013 | 2019 |
| 10 MatLab License | \$ 726.67 | \$ 2,180.00 | 2012 | 2015 |
| Total | \$ 41,158.08 | \$ 255,559.50 | | |

ENGR-274 Evaluation, Proficiency and Test Center

EEE 3342C Digital Systems
 EEL 3801C Computer Organization
 EEL 3004C Electrical Network
 EEL 3123C Networks and Systems

Revision Date: September 9, 2014

| Item | Annualized Cost | Cost | Purchased | Replace |
|---|---------------------|---------------------|-------------|---------|
| 18 Computer Tables | \$ 1,119.60 | \$ 11,196.00 | 2012 | 2022 |
| 26 Dell 990 PC's | \$ 5,200.00 | \$ 26,000.00 | 2011 | 2016 |
| Lab Sofa | \$ 101.30 | \$ 1,013.00 | 2012 | 2022 |
| 45 Lab Chairs | \$ 1,437.30 | \$ 14,373.00 | 2012 | 2022 |
| Small Lab Table | \$ 39.50 | \$ 395.00 | 2012 | 2022 |
| 2 Activity Tables | \$ 87.70 | \$ 877.00 | 2012 | 2022 |
| 2 32" Monitors | \$ 92.00 | \$ 920.00 | 2012 | 2022 |
| 3 Marker Boards | \$ 3,740.00 | \$ 780.00 | 2012 | 2040 |
| National Instruments EDA Software Suite | \$ 5,000.00 | \$ 5,000.00 | annual cost | |
| 3 Electronic Locks | \$ 1,500.00 | \$ 15,000.00 | 2013 | 2023 |
| MatLab Simulink 25 seat Network License | \$ 3,875.00 | \$ 3,875.00 | annual cost | |
| 4 Security Cameras | \$ 1,333.33 | \$ 4,000.00 | 2011 | 2014 |
| Total | \$ 23,525.73 | \$ 83,429.00 | | |

HEC-302 Medical Robotics Laboratory

EEL 5690. Introduction to Medical Robotics and Tele-Operation

Revision Date: September 9, 2014

| Item | Annualized Cost | Cost | Class Use | Purchased | Replace |
|---|--------------------|----------------------|-----------|-----------|---------|
| Phantom Omni (2) | \$ 735.83 | \$ 4,415.00 | 100% | 2013 | 2019 |
| Medical Surgical Robot, University of Washington, Raven III | \$ 675.68 | \$ 250,000.00 | 10% | 2013 | 2050 |
| 7 laboratory computers | \$ 280.00 | \$ 7,000.00 | 20% | 2013 | 2018 |
| Total | \$ 1,691.51 | \$ 261,415.00 | | | |

HEC-338 ECE Smart Laboratory

ECE Undergraduate Computer Laboratory for Course Support for all ECE

Revision Date: October 2, 2013

| Item | Annualized Cost | Cost | Purchased | Replace |
|---|---------------------|---------------------|-------------|---------|
| 22 Dell 990 PC's | \$ 1,666.67 | \$ 10,000.00 | 2009 | 2015 |
| 7 Computer Tables | \$ 500.00 | \$ 5,000.00 | 2004 | 2014 |
| 4 Lab Benches | \$ 116.40 | \$ 3,492.00 | 2011 | 2041 |
| 32 Lab Stools | \$ 685.71 | \$ 9,600.00 | 2000 | 2014 |
| Comsol Multi-Physic | \$ 4.22 | \$ 8,500.00 | | 2014 |
| National Instruments EDA Software Suite | \$ 5,000.00 | \$ 5,000.00 | annual cost | |
| Cadence Software | \$ 4,500.00 | \$ 4,500.00 | annual cost | |
| Electronic Lock | \$ 500.00 | \$ 5,000.00 | 2012 | 2022 |
| 2 Security Cameras | \$ 200.00 | \$ 2,000.00 | 2011 | 2021 |
| Total | \$ 13,173.00 | \$ 53,092.00 | | |

HEC-406 Characterization Laboratory

EEE4463C MEMS DEVICES AND APPLICATIONS

Revision Date: September 9, 2014

| Item | Annualized Cost | Cost | Class Use | Purchased | Replace |
|--|--------------------|----------------------|-----------|-----------|---------|
| Probing station, Micromanipulator 6000 | \$ 363.64 | \$ 40,000.00 | 50% | 1995 | 2050 |
| 2 - Parameter Analyzer, HP 4145B | \$ 1,188.33 | \$ 71,300.00 | 50% | 1995 | 2025 |
| C-V Plotter, HP 4280A | \$ 250.00 | \$ 15,000.00 | 50% | 1995 | 2025 |
| LCR Meter, HP 4275A | \$ 264.08 | \$ 15,845.00 | 50% | 1995 | 2025 |
| DC Voltage Source, HP 4140B | \$ 16.67 | \$ 1,000.00 | 50% | 1995 | 2025 |
| GPIO-USB, National Instrument | \$ 8.33 | \$ 500.00 | 50% | 1995 | 2025 |
| Low Temperature Measuring setup, | \$ 1,111.11 | \$ 40,000.00 | 50% | 2007 | 2025 |
| Water Circulator - Poly Science | \$ 83.33 | \$ 2,000.00 | 50% | 2008 | 2020 |
| Mechanical Vacuum Pump | \$ 20.00 | \$ 1,000.00 | 50% | 2000 | 2025 |
| Multimeter, HP 34401A | \$ 44.92 | \$ 1,123.00 | 100% | 1995 | 2020 |
| Universal Test Center, TENMA 72-5085 | \$ 240.00 | \$ 6,000.00 | 100% | 1995 | 2020 |
| Oscilloscope, Beckman Industrial 9060 | \$ 20.00 | \$ 500.00 | 100% | 1995 | 2020 |
| DC Power Supply, LEADER LPS 152 | \$ 20.00 | \$ 500.00 | 100% | 1995 | 2020 |
| 2 - Lock-in-Amplifier, EG&G 5210 | \$ 320.00 | \$ 8,000.00 | 100% | 1995 | 2020 |
| Digital Oscilloscope, HP 54503A | \$ 160.00 | \$ 4,000.00 | 100% | 1995 | 2020 |
| 3 - Micro Volt DMM, Keithly | \$ 60.00 | \$ 1,500.00 | 100% | 1995 | 2020 |
| Nano Voltmeter, Keithly 181 | \$ 120.00 | \$ 3,000.00 | 100% | 1995 | 2020 |
| Current Source, Keithly 224 | \$ 240.00 | \$ 6,000.00 | 100% | 1995 | 2020 |
| Controller, Lakeshore Crytronics 805 | \$ 120.00 | \$ 3,000.00 | 100% | 1995 | 2020 |
| Oscilloscope, Tektronics T922 | \$ 40.00 | \$ 1,000.00 | 100% | 1995 | 2020 |
| Four Point Probe, FPP5000 | \$ 240.00 | \$ 6,000.00 | 100% | 1995 | 2020 |
| 2 - Microscope | \$ 200.00 | \$ 5,000.00 | 100% | 1995 | 2020 |
| Oscilloscope, HP 1740A | \$ 40.00 | \$ 1,000.00 | 100% | 1995 | 2020 |
| Heating Plate, | \$ 10.00 | \$ 500.00 | 50% | 1995 | 2020 |
| Pulse Generator, HP 214B | \$ 59.80 | \$ 1,495.00 | 100% | 1995 | 2020 |
| Impedance Analyzer, HP 4192A | \$ 275.28 | \$ 6,882.00 | 100% | 1995 | 2020 |
| Curve Tracer, Tektronics 577 | \$ 400.00 | \$ 10,000.00 | 100% | 1995 | 2020 |
| UV-Visible Spectrometer, Varian 1000 | \$ 161.29 | \$ 10,000.00 | 50% | 2009 | 2040 |
| 5 - Desktop Computer, Dell | \$ 62.50 | \$ 500.00 | 50% | 2011 | 2015 |
| Electromagnet, SVS Labs | \$ 859.50 | \$ 8,595.00 | 100% | 2013 | 2023 |
| Total | \$ 6,998.79 | \$ 271,240.00 | | | |

ENGR-456 Senior Design Laboratory

EEL-4914 Senior Design I

EEL-4915 Senior Design II

Revision Date: September 9, 2014

| Item | Annualized Cost | Cost | Purchased | Replace |
|--|---------------------|----------------------|-----------|---------|
| 18 Laboratory Computers | \$ 3,000.00 | \$ 18,000.00 | 2009 | 2015 |
| 41 Logic Analyzers | \$ 1,222.82 | \$ 13,451.00 | 2009 | 2020 |
| 1 SMT Soldering/Desoldering Station | \$ 459.71 | \$ 6,436.00 | 2002 | 2016 |
| 1 LCR Meter | \$ 27.96 | \$ 699.00 | 2000 | 2025 |
| 4 Power Supplies, Tektronix PWS4323 | \$ 58.60 | \$ 1,172.00 | 2011 | 2031 |
| 4 Power Supplies, Tektronix PWS2721 | \$ 48.38 | \$ 1,016.00 | 2010 | 2031 |
| 18 Function Generators, Tektronix AFG3022B | \$ 3,245.56 | \$ 35,701.20 | 2010 | 2021 |
| 18 Multimeters, Tektronix DMM4050 | \$ 1,440.91 | \$ 15,850.00 | 2010 | 2021 |
| 18 Oscilloscopes, Tektronix MSO4034B | \$ 25,688.50 | \$ 102,754.00 | 2010 | 2014 |
| 6 Triple Output Power Supply, Agilent E3630A | \$ 562.65 | \$ 11,253.00 | 2009 | 2029 |
| 18 Keithly Triple Channel Power Supply | \$ 18,000.00 | \$ 18,000.00 | 2013 | 2014 |
| 30 Storage Cabinets | \$ 200.00 | \$ 4,000.00 | 2014 | 2034 |
| 32 Lab Chairs | \$ 533.33 | \$ 8,000.00 | 2000 | 2015 |
| 18 Lab Benches | \$ 432.42 | \$ 14,270.00 | 2007 | 2040 |
| Senior Design Server | \$ 619.00 | \$ 2,476.00 | 2014 | 2018 |
| Electronic Lock | \$ 500.00 | \$ 5,000.00 | 2013 | 2023 |
| 4 Security Cameras | \$ 1,333.33 | \$ 4,000.00 | 2011 | 2014 |
| 50 Seat Licence for Eagle PCB Software | \$ 222.22 | \$ 2,000.00 | 2011 | 2020 |
| Total | \$ 57,595.41 | \$ 264,078.20 | | |

ENGR-461 RF & Microwave Laboratory

EEL-4436 Microwave Engineering
 EEL-5437 Microwave Engineering
 EEL-5439 RF & Microwave Communications
 EEL-5462 Antenna Analysis and Design
 EEL-5425 RF & Microwave Measurement Techniques

Revision Date: September 9, 2014

Some equipment items are used for both instruction and research.
 The percentage of instructional use is shown.

| Item | Annualized Cost | Cost | Class Use | Purchased | Replace |
|---|---------------------|----------------------|-----------|-------------|---------|
| 8 Laboratory Computers | \$ 1,333.33 | \$ 8,000.00 | 100% | 2009 | 2015 |
| 1 Network Printer | \$ 90.00 | \$ 900.00 | 100% | 2005 | 2015 |
| Network Analyzer, Agilent 8357A | \$ 9,271.93 | \$ 139,079.00 | 100% | 2002 | 2017 |
| 4 Netowrk Analyzer, Agilent E5471C | \$ 5,000.00 | \$ 100,000.00 | 100% | 2014 | 2034 |
| 2 Spectrum Analyzers, Rohde \$ Schwarz | \$ 1,070.00 | \$ 21,400.00 | 100% | 2007 | 2027 |
| 2 Signal Generators, Rohde \$ Schwarz | \$ 585.45 | \$ 12,880.00 | 100% | 2007 | 2029 |
| UV Source | \$ 145.15 | \$ 9,870.00 | 50% | 1986 | 2020 |
| Bake Oven | \$ 37.50 | \$ 1,500.00 | 50% | 2000 | 2020 |
| Headway Resist Spinner | \$ 56.40 | \$ 3,835.00 | 50% | 1986 | 2020 |
| ADS from Agilent Design Software - 50 seats | \$ 1,404.00 | \$ 1,404.00 | 100% | annual cost | 2015 |
| Ansoft EM Analysis Software | \$ 4,000.00 | \$ 4,000.00 | 100% | annual cost | 2015 |
| Computer Tables w/ Electrical | \$ 535.71 | \$ 7,500.00 | 100% | 2013 | 2027 |
| 3 Electronic Locks | \$ 1,500.00 | \$ 15,000.00 | 100% | 2013 | 2023 |
| 2 Security Cameras | \$ 100.00 | \$ 2,000.00 | 50% | 2011 | 2021 |
| Total | \$ 25,129.48 | \$ 327,368.00 | | | |

ENGR-471

Signals and Communications Laboratory

EEL-3552 Signal Analysis & Communications
 EEL-4140 Analog Filter Design
 EEL-4512 Communication Systems
 EEL-4515 Digital Communication Systems

Revision Date: October 2, 2013

| Item | Annualized Cost | Cost | Purchased | Replace |
|---|---------------------|----------------------|-----------|---------|
| 13 Oscilloscopes, Tektronix DPO4034B | \$ 7,258.00 | \$ 72,580.00 | 2009 | 2019 |
| 13 Arbitrary Func. Generators, Tektronix AFG3022B | \$ 2,077.00 | \$ 20,770.00 | 2009 | 2019 |
| 13 Digital Multimeter, Tektronix DMM4050 | \$ 1,144.80 | \$ 11,448.00 | 2010 | 2020 |
| 13 Power Supplies, Tektronix PWT4301 | \$ 395.45 | \$ 7,909.00 | 2011 | 2031 |
| 13 Dell 990 PC's | \$ 2,166.67 | \$ 13,000.00 | 2009 | 2015 |
| 26 Lab Stools | \$ 557.14 | \$ 7,800.00 | 2000 | 2014 |
| Electronic Lock | \$ 500.00 | \$ 5,000.00 | 2013 | 2023 |
| 2 Security Cameras | \$ 200.00 | \$ 2,000.00 | 2011 | 2021 |
| Total | \$ 14,299.06 | \$ 140,507.00 | | |

ENGR-474 Electronics Laboratory

EEL-3123 Networks and Systems

EEE-3307 Electronics I

EEE-4309 Electronics II

Revision Date: September 9, 2014

| Item | Annualized Cost | Cost | Purchased | Replace |
|--|---------------------|----------------------|-----------|---------|
| 21 Oscilloscopes, Tektronix DPO4034B | \$ 10,716.20 | \$ 107,162.00 | 2011 | 2021 |
| 21 Arb. Func. Generators, Tektronix AFG3022B | \$ 3,355.10 | \$ 33,551.00 | 2011 | 2021 |
| 40 Multimeters, Tektronix DMM40500 | \$ 3,129.80 | \$ 31,298.00 | 2011 | 2021 |
| 21 Power Supplies, Tektronix PWT4301 | \$ 638.75 | \$ 12,775.00 | 2011 | 2031 |
| 8 Lab Benches | \$ 361.81 | \$ 11,216.00 | 2010 | 2041 |
| 41 Dell PC's | \$ 6,833.33 | \$ 41,000.00 | 2009 | 2015 |
| 41 Lab Stools | \$ 1,221.76 | \$ 12,217.59 | 2013 | 2023 |
| Electronic Lock | \$ 500.00 | \$ 5,000.00 | 2013 | 2023 |
| 4 Security Cameras | \$ 1,333.33 | \$ 4,000.00 | 2011 | 2014 |
| Total | \$ 28,090.08 | \$ 258,219.59 | | |

Graduate Equipment Fee Request Form

Forward to your college office

This form is to be used for requests to add, change, or delete equipment fee requests for a program. All requests for the next catalog must be submitted by October 24 for the November agenda deadline of the Graduate Council Committee (Dean Ross Hinkle).

Request routing: 1) Department Chair to College Dean's Office; 2) Dean's Office; 3) Graduate Council Curriculum Committee; 4) A list of approved requests will be forwarded to the provost for final approval. 5) University Board of Trustees — information only.

Under the rules of the Board of Trustees for the University of Central Florida, equipment fees may be assessed for the use and replacement of equipment. Fees take effect in the fall semester of each year. Departments must maintain detailed accounting of all expenditures and report them to the Dean of the Graduate College on July 1 of each year. Equipment Fee maximum per semester: \$90.00 Full-time; \$45.00 Part-time.

Use one form for each program request:

Date Submitted: 10/15/2014

College: Engineering & Computer Science

Department: Electrical Engineering & Computer Science

Submitted by: Michael Powell

Degree program: Digital Forensics

MS

Equipment Fees:

Fall graduate student enrollment: 115

Full-time ¹⁶

Part-time ⁹⁹

Fee amount per semester: \$4034.03 \$5371.

Full-time \$82

Part-time \$41

Provide detailed Justification for the Request:

(use additional sheet if necessary)

A fee is required to help maintain and update the equipment used by the program. Most items have a 3-5 year life span. Most of the item costs are split across multiple programs based on the usage by each program. Please see the attachments for the breakdown of costs per item.

Provide detailed cost information about the expenses for which the fee is to be assessed.

(use additional sheet if necessary)

| Equipment | Cost | Lifetime |
|------------------------|------|----------|
| See Attached | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Total of Costs: | | |

Maintenance plans and maintenance cost/year: These are included in the cost of the hardware listed in the attachment.

Any special conditions or exemptions must be identified:

[illegible]

Account Number to Deposit Fees: 16400804

Contact Person: Michael Powell

Phone Number: 407-882-1337

Department Chair (Print) Gary T. Leavens (Signature) Gary T. Leavens Date 10/16/14

College Academic (Print) Charles H. Reilly (Signature) Charles H. Reilly Date 10/23/14

Standards

College Dean (Print) Melinda George Parks (Signature) [Signature] Date 10/21/17

Graduate Council (Print) _____ (Signature) _____ Date _____

Graduate Council (Print) _____ (Signature) _____ Date _____

Graduate Dean (Print) _____ (Signature) _____ Date _____

Provost and Vice President for Academic Affairs: _____ Date _____

Explanation for Attached Spreadsheets

The top of each sheet has a usage percentage for each program. Each room has a sheet that shows the breakdown of the annual cost each program has to cover. There are two sheets, HEC-102 Servers and HEC-322 Routers, that show a broken down itemization of components in their corresponding rooms. HEC-208 is listed slightly differently, as a portion of the equipment is used for research. The percentages for teaching/research were determined by Dr. LaViola.

The General spreadsheet shows items and personnel that are utilized in more than one room. The Total spreadsheet shows the information gathered from the room spreadsheets, and calculates the fees for each program. Required Fee is the minimum amount required to cover costs and the listed contingency percentage. The Requested Fee shows what we would like to charge the students. Beneath the Requested Fee you can see the difference between the required fee to maintain our current operations, and the amount we will receive. To the right of the Requested Fee calculations, you can see what our actual contingency percentage will be with the rounding in place, and you can see how much we receive for our contingency fund.

Abbreviations on the spreadsheet:

AC – Annual Cost

UGCS – Undergraduate Computer Science

GCS – Graduate Computer Science

IT – Information Technology

MSDF – Digital Forensics

HEC-322

| DGCS | GCS | IT | MSDF | Other |
|-------|------|-------|------|-------|
| 10.0% | 0.0% | 85.0% | 5.0% | 0.0% |

| Item | Quantity | Item Cost | Total Cost | Estimated Life |
|-----------------------|----------|-------------|-------------|----------------|
| Computer | 28 | \$2,000.00 | \$56,000.00 | 3 |
| Networking | 1 | \$69,949.34 | \$69,949.34 | 5 |
| Patch Panels | 1 | \$250.00 | \$250.00 | 5 |
| Power Line Ethernet | 7 | \$59.99 | \$59.99 | 5 |
| Spool of RJ45 Cabling | 2 | \$280.00 | \$560.00 | 1 |
| Chairs | 26 | \$200.00 | \$5,200.00 | 10 |
| Tables/Desks | 13 | \$2,000.00 | \$26,000.00 | 10 |
| Camera | 3 | \$1,000.00 | \$3,000.00 | 5 |
| Door Locks | 1 | \$5,000.00 | \$5,000.00 | 10 |
| TVs 36in | 6 | \$500.00 | \$3,000.00 | 3 |
| Storage Server | 1 | \$10,000.00 | \$10,000.00 | 5 |

| | |
|------------|--------------|
| Total Cost | \$179,019.33 |
| Total | |

| Total Annual Cost | Annual Cost Per Item |
|-------------------|----------------------|
| \$18,666.67 | \$666.67 |
| \$13,989.87 | \$13,989.87 |
| \$50.00 | \$50.00 |
| \$12.00 | \$12.00 |
| \$560.00 | \$280.00 |
| \$520.00 | \$20.00 |
| \$2,600.00 | \$200.00 |
| \$600.00 | \$200.00 |
| \$500.00 | \$500.00 |
| \$1,000.00 | \$166.67 |
| \$2,000.00 | \$2,000.00 |

| | |
|-------------------|-------------|
| Total Annual Cost | \$40,498.53 |
| Annual | |

| AC-DGCS | AC-GCS | AC-IT | AC-MSDF | AC-Other |
|------------|--------|-------------|----------|----------|
| \$1,866.67 | \$0.00 | \$15,866.67 | \$933.33 | \$0.00 |
| \$1,398.99 | \$0.00 | \$11,891.39 | \$699.49 | \$0.00 |
| \$5.00 | \$0.00 | \$42.50 | \$2.50 | \$0.00 |
| \$0.00 | \$0.00 | \$12.00 | \$0.00 | \$0.00 |
| \$0.00 | \$0.00 | \$560.00 | \$0.00 | \$0.00 |
| \$52.00 | \$0.00 | \$442.00 | \$26.00 | \$0.00 |
| \$260.00 | \$0.00 | \$2,210.00 | \$130.00 | \$0.00 |
| \$60.00 | \$0.00 | \$510.00 | \$30.00 | \$0.00 |
| \$50.00 | \$0.00 | \$425.00 | \$25.00 | \$0.00 |
| \$100.00 | \$0.00 | \$850.00 | \$50.00 | \$0.00 |
| \$200.00 | \$0.00 | \$1,700.00 | \$100.00 | \$0.00 |

| AC-DGCS | AC-GCS | AC-IT | AC-MSDF | AC-Other |
|------------|--------|-------------|------------|----------|
| \$3,992.65 | \$0.00 | \$34,509.55 | \$1,996.33 | \$0.00 |
| Annual | | | | |

<http://www.amazon.com/Belkin-48-Port-Patch-Panel-Cable/dp/B00004246E>
<http://www.amazon.com/Cisco-C3500-19-10G-Integrated-Services/dp/B000Z2CUL5>
<http://www.amazon.com/Cisco-MS-C3560X-24TS-Cat6a-3560X-Switch/dp/B09030ANU1>
<http://www.amazon.com/SMARTNET-8K534-24P-1000T-CON-SNT-3560G1/dp/B00A8PE8FE/ref=1>
<http://www.amazon.com/Cisco-MS-C3750S-24P-10G-Switch/dp/B0030A4P8E/ref=1>
<http://www.amazon.com/SMARTNET-W3-C26074-4-Cat6a-SNT-3750408E/dp/B00XW882KX/>
<http://www.amazon.com/Catalyst-W3-246945-24TS-1.25G-10Gabit-Switch/dp/B00310X0W0/ref=1>
<http://www.amazon.com/Cisco-C800-S3P-3560A87S-TAKEOVER-ONLY-3500Y/dp/B004S5X8W/>
<http://www.amazon.com/Cisco-MS-C3560X-24TS-Cat6a-R45Y-SU70E-1-3500Y/dp/B09030ANU1/ref=1>
<http://www.amazon.com/Cisco-PWM-C45-1300ACU-CATALYST-1300W-POWER/dp/B000071024/ref=1>
<http://www.amazon.com/Cisco-1-650000-4-Ethernet-CATALYST-mini-GBIC/dp/B0005050A0/ref=1>
<http://www.amazon.com/Cisco-1-650000-16P-1P-ES-10S-Enterprise-Access/dp/B00C806OLA/ref=1>
<http://www.cdw.com/shop/products/Cisco-Catalyst-4503-E-switch-rack-mountable-Cat4500-5-Series>
<http://www.amazon.com/Lebert-GXT3-2000RT120-2000VA-Tower-Mountable/dp/B005W3K34G/ref=1>
<http://www.cdw.com/shop/products/Black-Box-Center-Mount-Conversion-Brackets-rack-rail-adaptor>
http://www.amazon.com/Cisco-3500-Access-Catalog-Category/dp/B005F1NGTDA/ref=1_1_7js-select

| | |
|-------|-------------|
| Total | \$69,949.34 |
|-------|-------------|

sr_1_fm1_1?se=electronics&ie=UTF8&qid=1380642291&sr=1-1-fkm1&keywords=SMARTNET-Catalyst+3560X+24+Port
1?se=electronics&ie=UTF8&qid=1380642325&sr=1-1&keyword=Catalyst+3750X+24+Port+PoE+IP+Base
ef=sr_1_fm1_1?se=electronics&ie=UTF8&qid=1380642417&sr=1-1-fkm1&keywords=SMARTNET-Catalyst+3750X+24+Port+Data+IP+Base
1_1?se=electronics&ie=UTF8&qid=1380642441&sr=1-1&keyword=Catalyst+2960-24
3?sr_1_fm1_1?se=electronics&ie=UTF8&qid=1380642493&sr=1-1-fkm1&keywords=SMARTNET-Cat+2960S+24
L_1_1?se=electronics&ie=UTF8&qid=1380642830&sr=1-1&keywords=4503-E-Classes%2C-DoE+WS-X4648-R45SV428E%2C-Sup6L-
r_1_1?se=electronics&ie=UTF8&qid=1380642785&sr=1-1&keywords=Catalyst+4500+1300W+AC+Power+Supply+%28Data+and+PoE%29
L_4?se=electronics&ie=UTF8&qid=1380642891&sr=1-1&keywords=Catalyst+4500+48-Port+1000Base-X
1_fm1_1?se=electronics&ie=UTF8&qid=1380642954&sr=1-1-fkm1&keywords=Catalyst+4500E+LAN+Base+to+Enterprise+Services+software+upgrade
3-Slot-chas/2529398.aspx
sr_1_1?se=electronics&ie=UTF8&qid=1380649822&sr=1-1&keywords=GTX3+2000VA+RACK+TOWER+120V
~2U/2559318.aspx?enkwrd=ALLPROD%3a%2CU%2520center%2520mount%2520racks%27ca%2520Product%20Catalog
tronics&ie=UTF8&qid=1380649937&sr=1-7&keywords=802.11+802.11a%2Fg2Fn+Ctrl-based+AP+wn%2FCleanAir%3B+Int+Ant%3B+A+Reg+Domain

General

| Item | Quantity | Item Cost | Total Cost | Estimated Life |
|--------------------|----------|-------------|-------------|----------------|
| Systems Programmer | 1 | \$64,589.46 | \$64,589.46 | 1 |
| Lab Monitor | 1 | \$15,600.00 | \$15,600.00 | 1 |
| FTK License | 1 | \$5,000.00 | \$5,000.00 | 1 |
| Server | 1 | \$13,000.00 | \$13,000.00 | 5 |

| UGCS | GCS | IT | MSDF | Other |
|-------|-------|-------|--------|-------|
| 75.0% | 0.0% | 20.0% | 5.0% | 0.0% |
| 50.0% | 50.0% | 0.0% | 0.0% | 0.0% |
| 0.0% | 0.0% | 0.0% | 100.0% | 0.0% |
| 20.0% | 20.0% | 10.0% | 50.0% | 0.0% |

| Total Annual Cost | Annual Cost Per Item |
|-------------------|----------------------|
| \$64,589.46 | \$64,589.46 |
| \$15,600.00 | \$15,600.00 |
| \$5,000.00 | \$5,000.00 |
| \$2,600.00 | \$2,600.00 |

| AC-UGCS | AC-GCS | AC-IT | AC-MSDF | AC-Other |
|-------------|------------|-------------|------------|----------|
| \$48,442.10 | \$0.00 | \$12,917.89 | \$3,229.47 | \$0.00 |
| \$7,800.00 | \$7,800.00 | \$0.00 | \$0.00 | \$0.00 |
| \$0.00 | \$0.00 | \$0.00 | \$5,000.00 | \$0.00 |
| \$520.00 | \$520.00 | \$260.00 | \$1,300.00 | \$0.00 |

| Title | Pay | Fringe % | Total |
|--------------------|-------------|----------|-------------|
| Systems Programmer | \$50,499.97 | 27.90% | \$64,589.46 |

| Total Cost |
|-------------|
| \$98,189.46 |

| UGCS | GCS | IT | MSDF | Other |
|-------|-------|------|-------|-------|
| 36.3% | 17.5% | 7.5% | 38.8% | 0.0% |

| Total Annual Cost |
|-------------------|
| \$87,789.46 |

| AC-UGCS | AC-GCS | AC-IT | AC-MSDF | AC-Other |
|-------------|------------|-------------|------------|----------|
| \$56,762.10 | \$8,320.00 | \$13,177.89 | \$9,529.47 | \$0.00 |

Total

| Room | Total Cost | Total Annual Cost | Contingency |
|----------|--------------|-------------------|-------------|
| ENG1-187 | \$88,600.00 | \$19,462.86 | \$973.14 |
| ENG1-188 | \$88,600.00 | \$19,462.86 | \$973.14 |
| HEC-102 | \$126,256.18 | \$23,878.38 | \$1,193.92 |
| HEC-208 | \$195,300.00 | \$11,078.40 | \$553.92 |
| HEC-308 | \$92,800.00 | \$19,982.86 | \$999.14 |
| HEC-322 | \$179,019.33 | \$40,498.53 | \$2,024.93 |
| General | \$98,189.46 | \$87,789.46 | \$4,389.47 |

| AC-UGCS | AC-GCS | AC-IT | AC-MSDF | AC-Other |
|-------------|------------|-------------|------------|----------|
| \$15,570.29 | \$0.00 | \$3,892.57 | \$0.00 | \$0.00 |
| \$15,570.29 | \$0.00 | \$3,892.57 | \$0.00 | \$0.00 |
| \$23,878.38 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| \$5,539.20 | \$5,539.20 | \$0.00 | \$0.00 | \$0.00 |
| \$14,987.14 | \$0.00 | \$4,995.71 | \$0.00 | \$0.00 |
| \$3,992.65 | \$0.00 | \$34,509.55 | \$1,996.33 | \$0.00 |
| \$56,762.10 | \$8,320.00 | \$13,177.89 | \$9,529.47 | \$0.00 |

| |
|------------------------|
| Contingency Percentage |
| 5.00% |

| |
|------------------------|
| Round Up Requested Fee |
| No |

| Total Cost | Total Annual Cost | Total Contingency |
|------------------|-------------------|-------------------|
| Total | \$868,764.97 | \$222,153.35 |
| With Contingency | | \$11,107.67 |
| Contingency | | |

| AC-UGCS | AC-GCS | AC-IT | AC-MSDF | AC-Other |
|--------------|-------------|-------------|-------------|----------|
| \$136,300.05 | \$13,859.20 | \$60,468.30 | \$11,525.80 | \$0.00 |
| \$143,115.05 | \$14,552.16 | \$63,491.72 | \$12,102.09 | \$0.00 |
| \$6,815.00 | \$692.96 | \$3,023.42 | \$576.29 | \$0.00 |

| UGCS-Full | UGCS-Part | GCS-Full | GCS-Part | IT-Full | IT-Part | MSDF-Full | MSDF-Part |
|-------------------|-----------|----------|----------|---------|---------|-----------|-----------|
| Spring 2014 | 789 | 326 | 132 | 175 | 395 | 275 | 85 |
| Summer 2014 | 38 | 632 | 65 | 19 | 33 | 404 | 39 |
| Fall 2014 Prelim | 979 | 405 | 176 | 215 | 429 | 276 | 16 |
| Total | 1806 | 1363 | 373 | 409 | 857 | 955 | 36 |
| Avg. Per Semester | 602 | 454 | 124 | 136 | 286 | 318 | 75 |

| UGCS-Full | UGCS-Part | GCS-Full | GCS-Part | IT-Full | IT-Part | MSDF-Full | MSDF-Part |
|--------------|--------------|-------------|------------|------------|-------------|-------------|------------|
| Required Fee | \$57.53 | \$28.77 | \$25.20 | \$12.60 | \$47.58 | \$23.79 | \$81.77 |
| Total Fee | \$103,905.84 | \$39,209.21 | \$9,399.06 | \$5,153.10 | \$40,773.62 | \$22,718.09 | \$2,943.75 |
| Per Semester | \$34,635.28 | \$13,069.74 | \$3,133.02 | \$1,717.70 | \$13,591.21 | \$7,572.70 | \$981.25 |

| UGCS-Full | UGCS-Part | GCS-Full | GCS-Part | IT-Full | IT-Part | MSDF-Full | MSDF-Part |
|-----------------------------|--------------|-------------|------------|------------|-------------|-------------|------------|
| Requested Fee | \$57.00 | \$28.00 | \$25.00 | \$12.00 | \$47.00 | \$23.00 | \$81.00 |
| Total Gained | \$102,942.00 | \$38,164.00 | \$9,325.00 | \$4,908.00 | \$40,279.00 | \$21,965.00 | \$2,916.00 |
| Per Semester | \$34,314.00 | \$12,721.33 | \$3,108.33 | \$1,636.00 | \$13,426.33 | \$7,321.67 | \$972.00 |
| Difference Required/Request | -\$963.84 | -\$1,045.21 | -\$74.06 | -\$245.10 | -\$494.62 | -\$753.09 | -\$27.75 |

| |
|---------------------|
| Final Contingency % |
| 3.29% |
| Contingency Amount |
| \$7,305.65 |

Graduate Equipment Fee Request Form

Forward to your college office

This form is to be used for requests to add, change, or delete equipment fee requests for a program. All requests for the next catalog must be submitted by October 24 for the November agenda deadline of the Graduate Council Committee (Dean Ross Hinkle).

Request routing: 1) Department Chair to College Dean's Office; 2) Dean's Office; 3) Graduate Council Curriculum Committee; 4) A list of approved requests will be forwarded to the provost for final approval. 5) University Board of Trustees — information only.

Under the rules of the Board of Trustees for the University of Central Florida, equipment fees may be assessed for the use and replacement of equipment. Fees take effect in the fall semester of each year. Departments must maintain detailed accounting of all expenditures and report them to the Dean of the Graduate College on July 1 of each year. Equipment Fee maximum per semester: \$90.00 Full-time; \$45.00 Part-time.

Use one form for each program request:

Date Submitted: 10/22/2014 College: Engr. and Computer Science
 Department: EECS Dept., ECE Division Submitted by: Dr. Zhihua Qu
 Degree program: Electrical Engineering M.S. and Ph. D.

Equipment Fees:

Fall graduate student enrollment: 207 Full-time 152 Part-time 55
 Fee amount per semester: _____ Full-time \$90 Part-time \$45

Provide detailed Justification for the Request:

(use additional sheet if necessary)

See attachment for affected courses.

Provide detailed cost information about the expenses for which the fee is to be assessed.

(use additional sheet if necessary)

| Equipment | Cost | Lifetime |
|-------------------------------------|------|----------|
| See attachment for itemized details | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Total of Costs: | | |

Maintenance plans and maintenance cost/year:

Total cost for equipment replacement, upgrade, maintenance, and maintenance contracts per year:

| |
|--|
| |
|--|

Account Number to Deposit Fees: 1622804

Theresa Collins

407-823-2637

RECOMMENDED APPROVAL (all approval levels must be signed)

Department Chair (Print) ZHILUA QU (Signature) [Signature] Date 10/22/2014

College Academic (Print) Charles H. Reilly (Signature) Charles H. Reilly Date 10/23/14

Standards _____

College Dean (Print) Michael Georgiopoulos (Signature)  Date 10/23/14

Graduate Council (Print) _____ (Signature) _____ Date 7/7/11

Graduate Dean (Print) _____ (Signature) _____ Date _____

Provost and Vice President for Academic Affairs:

Date

Laboratory Equipment Cost Report

Department of Electrical Engineering and Computer Science

Revision Date: September 9, 2014

| Room | Annualized Cost | Cost | EE BS | CpE BS | EE Grad | CpE Grad |
|-----------------|-----------------|-----------------|-------|--------|---------|----------|
| ENGR-120 | \$ 2,310.19 | \$ 47,734.00 | 0% | 0% | 100% | 0% |
| ENGR-163 | \$ 5,846.81 | \$ 170,824.00 | 0% | 0% | 100% | 0% |
| ENGR-257 | \$ 41,158.08 | \$ 255,559.50 | 53% | 40% | 2% | 5% |
| ENGR-274 | \$ 23,525.73 | \$ 83,429.00 | 39% | 31% | 15% | 15% |
| ENGR-456 | \$ 57,595.41 | \$ 264,078.20 | 55% | 45% | 0% | 0% |
| ENGR-461 | \$ 25,129.48 | \$ 327,368.00 | 30% | 0% | 70% | 0% |
| ENGR-471 | \$ 14,299.06 | \$ 140,507.00 | 55% | 45% | 0% | 0% |
| ENGR-474 | \$ 28,090.08 | \$ 258,219.59 | 55% | 45% | 0% | 0% |
| HEC-302 | \$ 1,691.51 | \$ 261,415.00 | 0% | 0% | 100% | 0% |
| HEC-338 | \$ 13,173.00 | \$ 53,092.00 | 50% | 40% | 5% | 5% |
| HEC-406 | \$ 6,998.79 | \$ 271,240.00 | 0% | 0% | 100% | 0% |
| Senior Engineer | \$ 80,000.00 | \$ 80,000.00 | 45% | 40% | 15% | 0% |
| Total | \$ 299,818.13 | \$ 2,213,466.29 | | | | |

BSEE Only

| Room | Annualized Cost | %UG | Fee Cost |
|-----------------|-----------------|------|---------------|
| ENGR-257 | \$ 41,158.08 | 55% | \$ 22,636.94 |
| ENGR-274 | \$ 23,525.73 | 39% | \$ 9,175.04 |
| ENGR-456 | \$ 57,595.41 | 55% | \$ 31,677.48 |
| ENGR-461 | \$ 25,129.48 | 30% | \$ 7,538.84 |
| ENGR-471 | \$ 14,299.06 | 55% | \$ 7,864.48 |
| ENGR-474 | \$ 28,090.08 | 55% | \$ 15,449.55 |
| HEC-338 | \$ 13,173.00 | 50% | \$ 6,586.50 |
| HEC-406 | \$ 6,998.79 | 100% | \$ 6,998.79 |
| Senior Engineer | \$ 80,000.00 | 45% | \$ 36,000.00 |
| Total | \$ 289,969.63 | | \$ 143,927.61 |

| Status | AY Total | Fall 2014 | Summer 2014 | Spring 2014 |
|-----------|----------|-----------|-------------|-------------|
| Full Time | 1010 | 504 | 10 | 496 |
| Part Time | 1027 | 290 | 457 | 280 |
| Total | 2037 | 794 | 467 | 776 |

| | | |
|-----------|-------|----------------------------|
| FT EQ Fee | \$ 94 | Fee=Fee Cost / (FT + PT/2) |
| PT EQ Fee | \$ 47 | |

BCpEE Only

| Room | Annualized Cost | %UG | Fee Cost |
|-----------------|-----------------|-----|---------------|
| ENGR-257 | \$ 41,158.08 | 45% | \$ 18,521.13 |
| ENGR-274 | \$ 23,525.73 | 31% | \$ 7,292.98 |
| ENGR-456 | \$ 57,595.41 | 45% | \$ 25,917.93 |
| ENGR-471 | \$ 14,299.06 | 45% | \$ 6,434.58 |
| ENGR-474 | \$ 28,090.08 | 45% | \$ 12,640.54 |
| HEC-338 | \$ 13,173.00 | 40% | \$ 5,269.20 |
| Senior Engineer | \$ 80,000.00 | 40% | \$ 32,000.00 |
| Total | \$ 257,841.36 | | \$ 108,076.36 |

| Status | AY Total | Fall 2014 | Summer 2014 | Spring 2014 |
|-----------|----------|-----------|-------------|-------------|
| Full Time | 908 | 496 | 11 | 401 |
| Part Time | 771 | 194 | 392 | 185 |
| Total | 1679 | 690 | 403 | 586 |

| | | |
|-----------|-------|----------------------------|
| FT EQ Fee | \$ 84 | Fee=Fee Cost / (FT + PT/2) |
| PT EQ Fee | \$ 42 | |

Graduate EE Only

| Room | Annualized Cost | %G | Fee Cost |
|-----------------|-----------------|------|--------------|
| ENGR-120 | \$ 2,310.19 | 100% | \$ 2,310.19 |
| ENGR-163 | \$ 5,846.81 | 100% | \$ 5,846.81 |
| ENGR-274 | \$ 23,525.73 | 15% | \$ 3,528.86 |
| ENGR-461 | \$ 25,129.48 | 70% | \$ 17,590.64 |
| ENGR-302 | \$ 1,691.51 | 100% | \$ 1,691.51 |
| HEC-338 | \$ 13,173.00 | 5% | \$ 658.65 |
| HEC-406 | \$ 6,998.79 | 100% | \$ 6,998.79 |
| Senior Engineer | \$ 80,000.00 | 15% | \$ 12,000.00 |
| Total | \$ 158,675.51 | | \$ 50,625.44 |

| Status | AY Total | Fall 2014 | Summer 2014 | Spring 2014 |
|-----------|----------|-----------|-------------|-------------|
| Full Time | 337 | 152 | 56 | 129 |
| Part Time | 135 | 55 | 30 | 50 |
| Total | 472 | 207 | 86 | 179 |

| | | |
|-----------|--------|----------------------------|
| FT EQ Fee | \$ 125 | Fee=Fee Cost / (FT + PT/2) |
| PT EQ Fee | \$ 63 | |

Graduate CpE Only

| Room | Annualized Cost | %G | Fee Cost |
|-----------------|-----------------|-----|-------------|
| ENGR-274 | \$ 23,525.73 | 15% | \$ 3,528.86 |
| HEC-338 | \$ 13,173.00 | 5% | \$ 658.65 |
| Senior Engineer | \$ 80,000.00 | 0% | \$ - |
| Total | \$ 116,698.73 | | \$ 4,187.51 |

| Status | AY Total | Fall 2013 | Summer 2013 | Spring 2013 |
|-----------|----------|-----------|-------------|-------------|
| Full Time | 106 | 55 | 10 | 41 |
| Part Time | 82 | 30 | 19 | 33 |
| Total | 188 | 85 | 29 | 74 |

| | | |
|-----------|-------|----------------------------|
| FT EQ Fee | \$ 28 | Fee=Fee Cost / (FT + PT/2) |
| PT EQ Fee | \$ 14 | |

ENGR-120 Probe Station Laboratory

EEE-5332C Thin Film Technology

EEE-5356C Fabrication of Solid-State Devices

Revision Date: September 9, 2014

| Item | Annualized Cost | Cost | Class Use | Purchased | Replace |
|---|--------------------|---------------------|-----------|-----------|---------|
| 2 Probe Stations | \$ 216.56 | \$ 15,400.00 | 90% | 1986 | 2050 |
| 4 Probe Tips, Lucus Signatone SE-20TB | \$ 32.00 | \$ 160.00 | 100% | 2010 | 2015 |
| 3 Micropositioners, Lucus Signatone S-725SRM | \$ 176.70 | \$ 1,767.00 | 100% | 2010 | 2020 |
| 3 Micropositioners, Lucus Signatone S-725SLM | \$ 176.70 | \$ 1,767.00 | 100% | 2010 | 2020 |
| 8 Probe Tip Holders, Lucus Signatone U-S-1-CB | \$ 64.00 | \$ 640.00 | 100% | 2010 | 2020 |
| 2 Curve Tracers | \$ 207.69 | \$ 3,000.00 | 90% | 2002 | 2015 |
| C-V Plotter, HP 4280A | \$ 789.47 | \$ 15,000.00 | 100% | 2001 | 2020 |
| Monochromatic Profilometer, Spectroline | \$ 147.06 | \$ 5,000.00 | 100% | 1986 | 2020 |
| Electronic Lock | \$ 500.00 | \$ 5,000.00 | 100% | 2013 | 2023 |
| Total | \$ 2,310.19 | \$ 47,734.00 | | | |

ENGR-163 Microelectronics Laboratory

EEE-5332C Thin Film Technology

EEE-5356C Fabrication of Solid-State Devices

Revision Date: September 9, 2014

Some equipment items are used for both instruction and research.
The percentage of instructional use is shown.

| Item | Annualized Cost | Cost | Class Use | Purchased | Replace |
|---------------------------------|--------------------|----------------------|-----------|-----------|---------|
| Edwards Diffusion Evaporator | \$ 35.71 | \$ 1,500.00 | 100% | 1983 | 2025 |
| Bruce Oxidation Furnace | \$ 109.29 | \$ 5,100.00 | 90% | 1983 | 2025 |
| Bruce Diffusion Furnaces | \$ 218.57 | \$ 10,200.00 | 90% | 1983 | 2025 |
| Furnace Maintenance | \$ 250.00 | \$ 250.00 | 90% | 1983 | 2025 |
| Headway Resist Spinner | \$ 177.75 | \$ 6,715.00 | 90% | 1986 | 2020 |
| 3 Resist Bake Ovens | \$ 103.85 | \$ 4,500.00 | 90% | 1986 | 2025 |
| Karlsuss Mask Aligner | \$ 669.23 | \$ 29,000.00 | 90% | 1986 | 2025 |
| 3-Chamber Cryo system | \$ 42.19 | \$ 3,000.00 | 90% | 1986 | 2050 |
| 3-Chamber Cryo system Upgrades | \$ 900.00 | \$ 2,000.00 | 90% | 2013 | 2015 |
| Jandel 4pt Probe | \$ 225.00 | \$ 5,000.00 | 90% | 2005 | 2025 |
| 4 Vacuum Pumps | \$ 507.78 | \$ 11,284.00 | 90% | 2010 | 2030 |
| Profilometer, Bruker Dektek 150 | \$ 1,119.94 | \$ 49,775.00 | 90% | 2010 | 2050 |
| Electronic Lock | \$ 500.00 | \$ 5,000.00 | 100% | 2013 | 2023 |
| Veccoprofile meter, Wyko NT3300 | \$ 654.76 | \$ 27,500.00 | 100% | 1983 | 2025 |
| 2 - Microscope, Unitron | \$ 85.11 | \$ 4,000.00 | 100% | 1983 | 2030 |
| 4-Point probe, Magnetron 3-700 | \$ 135.14 | \$ 5,000.00 | 100% | 1983 | 2020 |
| Laptop Computer | \$ 62.50 | \$ 500.00 | 100% | 2012 | 2020 |
| Refrigerator | \$ 50.00 | \$ 500.00 | 100% | 2010 | 2020 |
| Total | \$ 5,846.81 | \$ 170,824.00 | | | |

ENGR-257 Computing Systems Laboratory

EEE 3342 Introduction to Digital Circuits & Systems

EEL 3801C Computer Organization

EEL 4742 Embedded Systems

EEE 5722C FPGA Design

EEL 4612C Robust Controls

Revision Date: September 9, 2014

| Item | Annualized Cost | Cost | Purchased | Replace |
|-------------------------------------|---------------------|----------------------|-----------|---------|
| 41 Laboratory Computers | \$ 6,833.33 | \$ 41,000.00 | 2009 | 2015 |
| 20 Digital Trainer, Global PB505 | \$ 400.00 | \$ 10,000.00 | 2000 | 2025 |
| 42 Lab Stools | \$ 900.00 | \$ 12,600.00 | 2000 | 2014 |
| 24 Logic Analyzers for Workstations | \$ 2,403.50 | \$ 4,807.00 | 2014 | 2016 |
| 1 Tektronics Logic Analyzer | \$ 1,982.20 | \$ 19,822.00 | 2014 | 2024 |
| 2 Large Screen Monitors | \$ 1,666.67 | \$ 10,000.00 | 2014 | 2020 |
| 20 Zedboards | \$ 1,395.63 | \$ 5,582.50 | 2014 | 2018 |
| 15 Kintex-7 Boards | \$ 6,356.25 | \$ 25,425.00 | 2014 | 2018 |
| 12 Lab Benches | \$ 349.17 | \$ 10,475.00 | 2010 | 2040 |
| 2 Electronic Lock | \$ 1,000.00 | \$ 10,000.00 | 2013 | 2023 |
| 2 Security Cameras | \$ 200.00 | \$ 2,000.00 | 2011 | 2021 |
| 8 Quanser Linear Controls Stations | \$ 16,944.67 | \$ 101,668.00 | 2013 | 2019 |
| 10 MatLab License | \$ 726.67 | \$ 2,180.00 | 2012 | 2015 |
| Total | \$ 41,158.08 | \$ 255,559.50 | | |

ENGR-274 Evaluation, Proficiency and Test Center

EEE 3342C Digital Systems
 EEL 3801C Computer Organization
 EEL 3004C Electrical Network
 EEL 3123C Networks and Systems

Revision Date: September 9, 2014

| Item | Annualized Cost | Cost | Purchased | Replace |
|---|---------------------|---------------------|-------------|---------|
| 18 Computer Tables | \$ 1,119.60 | \$ 11,196.00 | 2012 | 2022 |
| 26 Dell 990 PC's | \$ 5,200.00 | \$ 26,000.00 | 2011 | 2016 |
| Lab Sofa | \$ 101.30 | \$ 1,013.00 | 2012 | 2022 |
| 45 Lab Chairs | \$ 1,437.30 | \$ 14,373.00 | 2012 | 2022 |
| Small Lab Table | \$ 39.50 | \$ 395.00 | 2012 | 2022 |
| 2 Activity Tables | \$ 87.70 | \$ 877.00 | 2012 | 2022 |
| 2 32" Monitors | \$ 92.00 | \$ 920.00 | 2012 | 2022 |
| 3 Marker Boards | \$ 3,740.00 | \$ 780.00 | 2012 | 2040 |
| National Instruments EDA Software Suite | \$ 5,000.00 | \$ 5,000.00 | annual cost | |
| 3 Electronic Locks | \$ 1,500.00 | \$ 15,000.00 | 2013 | 2023 |
| MatLab Simulink 25 seat Network License | \$ 3,875.00 | \$ 3,875.00 | annual cost | |
| 4 Security Cameras | \$ 1,333.33 | \$ 4,000.00 | 2011 | 2014 |
| Total | \$ 23,525.73 | \$ 83,429.00 | | |

HEC-302 Medical Robotics Laboratory

EEL 5690. Introduction to Medical Robotics and Tele-Operation

Revision Date: September 9, 2014

| Item | Annualized Cost | Cost | Class Use | Purchased | Replace |
|---|--------------------|----------------------|-----------|-----------|---------|
| Phantom Omni (2) | \$ 735.83 | \$ 4,415.00 | 100% | 2013 | 2019 |
| Medical Surgical Robot, University of Washington, Raven III | \$ 675.68 | \$ 250,000.00 | 10% | 2013 | 2050 |
| 7 laboratory computers | \$ 280.00 | \$ 7,000.00 | 20% | 2013 | 2018 |
| Total | \$ 1,691.51 | \$ 261,415.00 | | | |

HEC-338 ECE Smart Laboratory

ECE Undergraduate Computer Laboratory for Course Support for all ECE

Revision Date: October 2, 2013

| Item | Annualized Cost | Cost | Purchased | Replace |
|---|---------------------|---------------------|-------------|---------|
| 22 Dell 990 PC's | \$ 1,666.67 | \$ 10,000.00 | 2009 | 2015 |
| 7 Computer Tables | \$ 500.00 | \$ 5,000.00 | 2004 | 2014 |
| 4 Lab Benches | \$ 116.40 | \$ 3,492.00 | 2011 | 2041 |
| 32 Lab Stools | \$ 685.71 | \$ 9,600.00 | 2000 | 2014 |
| Comsol Multi-Physic | \$ 4.22 | \$ 8,500.00 | | 2014 |
| National Instruments EDA Software Suite | \$ 5,000.00 | \$ 5,000.00 | annual cost | |
| Cadence Software | \$ 4,500.00 | \$ 4,500.00 | annual cost | |
| Electronic Lock | \$ 500.00 | \$ 5,000.00 | 2012 | 2022 |
| 2 Security Cameras | \$ 200.00 | \$ 2,000.00 | 2011 | 2021 |
| Total | \$ 13,173.00 | \$ 53,092.00 | | |

HEC-406 Characterization Laboratory

EEE4463C MEMS DEVICES AND APPLICATIONS

Revision Date: September 9, 2014

| Item | Annualized Cost | Cost | Class Use | Purchased | Replace |
|--|--------------------|----------------------|-----------|-----------|---------|
| Probing station, Micromanipulator 6000 | \$ 363.64 | \$ 40,000.00 | 50% | 1995 | 2050 |
| 2 - Parameter Analyzer, HP 4145B | \$ 1,188.33 | \$ 71,300.00 | 50% | 1995 | 2025 |
| C-V Plotter, HP 4280A | \$ 250.00 | \$ 15,000.00 | 50% | 1995 | 2025 |
| LCR Meter, HP 4275A | \$ 264.08 | \$ 15,845.00 | 50% | 1995 | 2025 |
| DC Voltage Source, HP 4140B | \$ 16.67 | \$ 1,000.00 | 50% | 1995 | 2025 |
| GPIO-USB, National Instrument | \$ 8.33 | \$ 500.00 | 50% | 1995 | 2025 |
| Low Temperature Measuring setup, | \$ 1,111.11 | \$ 40,000.00 | 50% | 2007 | 2025 |
| Water Circulator - Poly Science | \$ 83.33 | \$ 2,000.00 | 50% | 2008 | 2020 |
| Mechanical Vacuum Pump | \$ 20.00 | \$ 1,000.00 | 50% | 2000 | 2025 |
| Multimeter, HP 34401A | \$ 44.92 | \$ 1,123.00 | 100% | 1995 | 2020 |
| Universal Test Center, TENMA 72-5085 | \$ 240.00 | \$ 6,000.00 | 100% | 1995 | 2020 |
| Oscilloscope, Beckman Industrial 9060 | \$ 20.00 | \$ 500.00 | 100% | 1995 | 2020 |
| DC Power Supply, LEADER LPS 152 | \$ 20.00 | \$ 500.00 | 100% | 1995 | 2020 |
| 2 - Lock-in-Amplifier, EG&G 5210 | \$ 320.00 | \$ 8,000.00 | 100% | 1995 | 2020 |
| Digital Oscilloscope, HP 54503A | \$ 160.00 | \$ 4,000.00 | 100% | 1995 | 2020 |
| 3 - Micro Volt DMM, Keithly | \$ 60.00 | \$ 1,500.00 | 100% | 1995 | 2020 |
| Nano Voltmeter, Keithly 181 | \$ 120.00 | \$ 3,000.00 | 100% | 1995 | 2020 |
| Current Source, Keithly 224 | \$ 240.00 | \$ 6,000.00 | 100% | 1995 | 2020 |
| Controller, Lakeshore Crytronics 805 | \$ 120.00 | \$ 3,000.00 | 100% | 1995 | 2020 |
| Oscilloscope, Tektronics T922 | \$ 40.00 | \$ 1,000.00 | 100% | 1995 | 2020 |
| Four Point Probe, FPP5000 | \$ 240.00 | \$ 6,000.00 | 100% | 1995 | 2020 |
| 2 - Microscope | \$ 200.00 | \$ 5,000.00 | 100% | 1995 | 2020 |
| Oscilloscope, HP 1740A | \$ 40.00 | \$ 1,000.00 | 100% | 1995 | 2020 |
| Heating Plate, | \$ 10.00 | \$ 500.00 | 50% | 1995 | 2020 |
| Pulse Generator, HP 214B | \$ 59.80 | \$ 1,495.00 | 100% | 1995 | 2020 |
| Impedance Analyzer, HP 4192A | \$ 275.28 | \$ 6,882.00 | 100% | 1995 | 2020 |
| Curve Tracer, Tektronics 577 | \$ 400.00 | \$ 10,000.00 | 100% | 1995 | 2020 |
| UV-Visible Spectrometer, Varian 1000 | \$ 161.29 | \$ 10,000.00 | 50% | 2009 | 2040 |
| 5 - Desktop Computer, Dell | \$ 62.50 | \$ 500.00 | 50% | 2011 | 2015 |
| Electromagnet, SVS Labs | \$ 859.50 | \$ 8,595.00 | 100% | 2013 | 2023 |
| Total | \$ 6,998.79 | \$ 271,240.00 | | | |

ENGR-456 Senior Design Laboratory

EEL-4914 Senior Design I
EEL-4915 Senior Design II

Revision Date: September 9, 2014

| Item | Annualized Cost | Cost | Purchased | Replace |
|--|---------------------|----------------------|-----------|---------|
| 18 Laboratory Computers | \$ 3,000.00 | \$ 18,000.00 | 2009 | 2015 |
| 41 Logic Analyzers | \$ 1,222.82 | \$ 13,451.00 | 2009 | 2020 |
| 1 SMT Soldering/Desoldering Station | \$ 459.71 | \$ 6,436.00 | 2002 | 2016 |
| 1 LCR Meter | \$ 27.96 | \$ 699.00 | 2000 | 2025 |
| 4 Power Supplies, Tektronix PWS4323 | \$ 58.60 | \$ 1,172.00 | 2011 | 2031 |
| 4 Power Supplies, Tektronix PWS2721 | \$ 48.38 | \$ 1,016.00 | 2010 | 2031 |
| 18 Function Generators, Tektronix AFG3022B | \$ 3,245.56 | \$ 35,701.20 | 2010 | 2021 |
| 18 Multimeters, Tektronix DMM4050 | \$ 1,440.91 | \$ 15,850.00 | 2010 | 2021 |
| 18 Oscilloscopes, Tektronix MSO4034B | \$ 25,688.50 | \$ 102,754.00 | 2010 | 2014 |
| 6 Triple Output Power Supply, Agilent E3630A | \$ 562.65 | \$ 11,253.00 | 2009 | 2029 |
| 18 Keithly Triple Channel Power Supply | \$ 18,000.00 | \$ 18,000.00 | 2013 | 2014 |
| 30 Storage Cabinets | \$ 200.00 | \$ 4,000.00 | 2014 | 2034 |
| 32 Lab Chairs | \$ 533.33 | \$ 8,000.00 | 2000 | 2015 |
| 18 Lab Benches | \$ 432.42 | \$ 14,270.00 | 2007 | 2040 |
| Senior Design Server | \$ 619.00 | \$ 2,476.00 | 2014 | 2018 |
| Electronic Lock | \$ 500.00 | \$ 5,000.00 | 2013 | 2023 |
| 4 Security Cameras | \$ 1,333.33 | \$ 4,000.00 | 2011 | 2014 |
| 50 Seat Licence for Eagle PCB Software | \$ 222.22 | \$ 2,000.00 | 2011 | 2020 |
| Total | \$ 57,595.41 | \$ 264,078.20 | | |

ENGR-461 RF & Microwave Laboratory

EEL-4436 Microwave Engineering
 EEL-5437 Microwave Engineering
 EEL-5439 RF & Microwave Communications
 EEL-5462 Antenna Analysis and Design
 EEL-5425 RF & Microwave Measurement Techniques

Revision Date: September 9, 2014

Some equipment items are used for both instruction and research.
 The percentage of instructional use is shown.

| Item | Annualized Cost | Cost | Class Use | Purchased | Replace |
|---|---------------------|----------------------|-----------|-------------|---------|
| 8 Laboratory Computers | \$ 1,333.33 | \$ 8,000.00 | 100% | 2009 | 2015 |
| 1 Network Printer | \$ 90.00 | \$ 900.00 | 100% | 2005 | 2015 |
| Network Analyzer, Agilent 8357A | \$ 9,271.93 | \$ 139,079.00 | 100% | 2002 | 2017 |
| 4 Netowrk Analyzer, Agilent E5471C | \$ 5,000.00 | \$ 100,000.00 | 100% | 2014 | 2034 |
| 2 Spectrum Analyzers, Rohde \$ Schwarz | \$ 1,070.00 | \$ 21,400.00 | 100% | 2007 | 2027 |
| 2 Signal Generators, Rohde \$ Schwarz | \$ 585.45 | \$ 12,880.00 | 100% | 2007 | 2029 |
| UV Source | \$ 145.15 | \$ 9,870.00 | 50% | 1986 | 2020 |
| Bake Oven | \$ 37.50 | \$ 1,500.00 | 50% | 2000 | 2020 |
| Headway Resist Spinner | \$ 56.40 | \$ 3,835.00 | 50% | 1986 | 2020 |
| ADS from Agilent Design Software - 50 seats | \$ 1,404.00 | \$ 1,404.00 | 100% | annual cost | 2015 |
| Ansoft EM Analysis Software | \$ 4,000.00 | \$ 4,000.00 | 100% | annual cost | 2015 |
| Computer Tables w/ Electrical | \$ 535.71 | \$ 7,500.00 | 100% | 2013 | 2027 |
| 3 Electronic Locks | \$ 1,500.00 | \$ 15,000.00 | 100% | 2013 | 2023 |
| 2 Security Cameras | \$ 100.00 | \$ 2,000.00 | 50% | 2011 | 2021 |
| Total | \$ 25,129.48 | \$ 327,368.00 | | | |

ENGR-471

Signals and Communications Laboratory

EEL-3552 Signal Analysis & Communications
 EEL-4140 Analog Filter Design
 EEL-4512 Communication Systems
 EEL-4515 Digital Communication Systems

Revision Date: October 2, 2013

| Item | Annualized Cost | Cost | Purchased | Replace |
|---|---------------------|----------------------|-----------|---------|
| 13 Oscilloscopes, Tektronix DPO4034B | \$ 7,258.00 | \$ 72,580.00 | 2009 | 2019 |
| 13 Arbitrary Func. Generators, Tektronix AFG3022B | \$ 2,077.00 | \$ 20,770.00 | 2009 | 2019 |
| 13 Digital Multimeter, Tektronix DMM4050 | \$ 1,144.80 | \$ 11,448.00 | 2010 | 2020 |
| 13 Power Supplies, Tektronix PWT4301 | \$ 395.45 | \$ 7,909.00 | 2011 | 2031 |
| 13 Dell 990 PC's | \$ 2,166.67 | \$ 13,000.00 | 2009 | 2015 |
| 26 Lab Stools | \$ 557.14 | \$ 7,800.00 | 2000 | 2014 |
| Electronic Lock | \$ 500.00 | \$ 5,000.00 | 2013 | 2023 |
| 2 Security Cameras | \$ 200.00 | \$ 2,000.00 | 2011 | 2021 |
| Total | \$ 14,299.06 | \$ 140,507.00 | | |

ENGR-474 Electronics Laboratory

EEL-3123 Networks and Systems

EEE-3307 Electronics I

EEE-4309 Electronics II

Revision Date: September 9, 2014

| Item | Annualized Cost | Cost | Purchased | Replace |
|--|---------------------|----------------------|-----------|---------|
| 21 Oscilloscopes, Tektronix DPO4034B | \$ 10,716.20 | \$ 107,162.00 | 2011 | 2021 |
| 21 Arb. Func. Generators, Tektronix AFG3022B | \$ 3,355.10 | \$ 33,551.00 | 2011 | 2021 |
| 40 Multimeters, Tektronix DMM40500 | \$ 3,129.80 | \$ 31,298.00 | 2011 | 2021 |
| 21 Power Supplies, Tektronix PWT4301 | \$ 638.75 | \$ 12,775.00 | 2011 | 2031 |
| 8 Lab Benches | \$ 361.81 | \$ 11,216.00 | 2010 | 2041 |
| 41 Dell PC's | \$ 6,833.33 | \$ 41,000.00 | 2009 | 2015 |
| 41 Lab Stools | \$ 1,221.76 | \$ 12,217.59 | 2013 | 2023 |
| Electronic Lock | \$ 500.00 | \$ 5,000.00 | 2013 | 2023 |
| 4 Security Cameras | \$ 1,333.33 | \$ 4,000.00 | 2011 | 2014 |
| Total | \$ 28,090.08 | \$ 258,219.59 | | |



Graduate Equipment Fee Request Form

Forward to your college office

This form is to be used for requests to add, change, or delete equipment fee requests for a program. All requests for the next catalog must be submitted by October 24 for the November agenda deadline of the Graduate Council Committee (Dean Ross Hinkle).

Request routing: 1) Department Chair to College Dean's Office; 2) Dean's Office; 3) Graduate Council Curriculum Committee; 4) A list of approved requests will be forwarded to the provost for final approval. 5) University Board of Trustees — information only.

Under the rules of the Board of Trustees for the University of Central Florida, equipment fees may be assessed for the use and replacement of equipment. Fees take effect in the fall semester of each year. Departments must maintain detailed accounting of all expenditures and report them to the Dean of the Graduate College on July 1 of each year. Equipment Fee maximum per semester: \$90.00 Full-time; \$45.00 Part-time.

Use one form for each program request:

Date Submitted: 10/21/14 College: CECS
Department: Materials Science and Engineering Submitted by: Helge Heinrich
Degree program: Materials Science and Engineering PhD and Materials Science and Engineering MS

Equipment Fees:

Fall graduate student enrollment: 51 Full-time 43 Part-time 8
Fee amount per semester: \$800 Full-time \$17.00 Part-time \$8.50

Provide detailed Justification for the Request:

(use additional sheet if necessary)

Two courses, EMA 6518 (offered every Spring) and EMA 6516 (offered every 2 years) use equipment at the MCF (Materials Characterization Facility) as part of the class. The course EMA 6518 uses 20 hours at the Tecnai F30 (costs: 70\$ per hour) and 10 hours at the JEOL 1010 (costs: 50\$ per hour) as part of hands-on experience in Transmission Electron Microscopy. The course EMA 6516 uses 20 hours at the Rigaku XRD II system (cost: 50\$ per hour). The experimental parts of these courses are needed to deepen the knowledge of students and to train them on the basic operation of equipment related to the course content. Per year this results in costs of ~~\$2,400~~ \$2,900.

Provide detailed cost information about the expenses for which the fee is to be assessed.

(use additional sheet if necessary)

| Equipment | Cost | Lifetime |
|---|-------------|----------|
| Tecnai F30 Transmission Electron Microscope | \$2,000,000 | 20 |
| JEOL 1010 TEM | 400,000 | 20 |
| Rigaku II X-Ray diffraction | 200,000 | 20 |
| | | |
| | | |
| | | |
| | | |
| | | |
| Total of Costs: | \$2,600,000 | |

Maintenance plans and maintenance cost/year: \$170,000

Total cost for equipment replacement, upgrade, maintenance, and maintenance contracts per year: \$300,000 (\$2,400)

About 0.8% of the user time for each of the 3 pieces of equipment at the MCF are used to teaching in EMA 6518 and EMA 6516. The remaining 96% of time are used by MCF customers (external companies, UCF faculty and students for their research projects as well as users from other universities). The amount of \$1,200 represents the 0.8% time used at these systems for the 2 courses in the PhD and MS programs of Materials Science and Engineering.

Account Number to Deposit Fees: 16270801

Item Type: Lab expense account for Materials Science and Engineering Department

Contact Person: Jodi Peters

Phone Number: 407-823-0607

| | | | |
|----------------------------|--------------------------------------|--------------------------------|----------------------|
| Department Chair | (Print) <u>Sudipta Seal</u> | (Signature) <u>[Signature]</u> | Date <u>10/22/14</u> |
| College Academic Standards | (Print) <u>Charles L. Reilly</u> | (Signature) <u>[Signature]</u> | Date <u>10/23/14</u> |
| College Dean | (Print) <u>Michael Georgiopoulos</u> | (Signature) <u>[Signature]</u> | Date <u>10/23/14</u> |
| Graduate Council | (Print) _____ | (Signature) _____ | Date _____ |
| Graduate Dean | (Print) _____ | (Signature) _____ | Date _____ |

Provost and Vice President for Academic Affairs: _____ Date _____

Maintenance plans and maintenance cost/year: _____

Total cost for equipment replacement, upgrade, maintenance, and maintenance contracts per year: _____

Any special conditions or exemptions must be identified:

| |
|--|
| |
|--|

Account Number to Deposit Fees: _____

Item Type: _____

Contact Person: _____

Phone Number: _____

Department Chair (Print) _____ (Signature) _____ Date _____

College Academic (Print) _____ (Signature) _____ Date _____

Standards

College Dean (Print) _____ (Signature) _____ Date _____

Graduate Council (Print) _____ (Signature) _____ Date _____

Graduate Dean (Print) _____ (Signature) _____ Date _____

Provost and Vice President for Academic Affairs: _____ Date _____

Maintenance plans and maintenance cost/year: _____

Any special conditions or exemptions must be identified:

| |
|--|
| |
|--|

Account Number to Deposit Fees: _____

Contact Person: _____

Phone Number: _____

Department Chair (Print) _____ (Signature) _____ Date _____

College Academic (Print) _____ (Signature) _____ Date _____

Standards

College Dean (Print) _____ (Signature) _____ Date _____

Graduate Council (Print) _____ (Signature) _____ Date _____

Graduate Dean (Print) _____ (Signature) _____ Date _____

Provost and Vice President for Academic Affairs: _____ Date _____



Graduate Equipment Fee Request Form

Forward to your college office

This form is to be used for requests to add, change, or delete equipment fee requests for a program. All requests for the next catalog must be submitted by October 24 for the November agenda deadline of the Graduate Council Committee (Dean Ross Hinkle).

Request routing: 1) Department Chair to College Dean's Office; 2) Dean's Office; 3) Graduate Council Curriculum Committee; 4) A list of approved requests will be forwarded to the provost for final approval. 5) University Board of Trustees — information only.

Under the rules of the Board of Trustees for the University of Central Florida, equipment fees may be assessed for the use and replacement of equipment. Fees take effect in the fall semester of each year. Departments must maintain detailed accounting of all expenditures and report them to the Dean of the Graduate College on July 1 of each year. Equipment Fee maximum per semester: \$90.00 Full-time; \$45.00 Part-time.

Use one form for each program request:

Date Submitted: 11/20/2014 College: Sciences
Department: Sociology Submitted by: JP Peters
Degree program: Sociology PhD

Equipment Fees:

Fall graduate student enrollment: (Annual enrollment 78FT/24PT) Full-time 33 Part-time 7
Fee amount per semester: _____ Full-time \$39 Part-time \$19.50

Provide detailed Justification for the Request:

(use additional sheet if necessary)

Howard Phillips Hall room 409 is a graduate-only departmental classroom lab all majors in the Political Science MA, Security Studies PhD, and Sociology PhD programs use to complete requirements of their degrees. This request is for one of these programs. Based on annual enrollment figures obtained via the Pegasus Mine Portal and actual use, the programs will split the equipment and maintenance expenses by the following ratio:

Political Science MA: 40%
Security Studies PhD: 10%
Sociology PhD: 50%

Provide detailed cost information about the expenses for which the fee is to be assessed.

(use additional sheet if necessary)

| Equipment | Cost | Lifetime |
|---|--------|----------|
| Lab Computers (17, \$1100 each, 5 year refresh) | \$3740 | \$18700 |
| Printer (5 year refresh) | \$100 | \$500 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Total of Costs: | \$3840 | \$19200 |

| |
|--|
| |
|--|

UCF College of Graduate Studies – P.O. Box 160112, Orlando, FL 32816-0112

M&S Fees Agenda

November 24, 2014

| College | Course | Title | Current Fee | Requested Fee | Approved Fee |
|---------|-----------|------------------------------|-------------|---------------------------------|--------------|
| CAH | MUN 5125 | Concert Band | \$ 20.00 | \$ 20.00 | \$ 0.00 |
| CAH | MUN 5145 | Wind Ensemble | \$ 20.00 | \$ 20.00 | \$ 0.00 |
| CAH | MUN 5215 | Symphony Orchestra | \$ 20.00 | \$ 20.00 | \$ 0.00 |
| CAH | MUN 5325 | Women's Chorus | \$ 20.00 | \$ 20.00 | \$ 0.00 |
| CAH | MUN 5368L | Graduate Madrigal Singers | \$ 20.00 | \$ 20.00 | \$ 0.00 |
| CAH | MUN 5385L | Graduate University Choru... | \$ 20.00 | \$ 20.00 | \$ 0.00 |
| CAH | MUN 5465L | Graduate Chamber Music | \$ 20.00 | \$ 20.00 | \$ 0.00 |
| CAH | MUN 5478L | Early Music Ensemble | \$ 5.00 | \$ 5.00 | \$ 0.00 |
| CAH | MUN 5715L | Jazz Ensemble | \$ 20.00 | \$ 20.00 | \$ 0.00 |
| CAH | MUN 5716L | Jazz Chamber Group | \$ 20.00 | \$ 20.00 | \$ 0.00 |
| CAH | MVJ 5359C | Jazz Drum Set V | \$ 35.00 | \$ 35.00 | \$ 0.00 |
| CAH | MVJ 6369C | Jazz Drum Set VI | \$ 35.00 | \$ 35.00 | \$ 0.00 |
| CAH | MVP 5451 | Percussion V | \$ 35.00 | \$ 35.00 | \$ 0.00 |
| CAH | MVP 6461 | Percussion VI | \$ 35.00 | \$ 35.00 | \$ 0.00 |
| CAH | ART 5280 | Serial Content | \$ 45.00 | \$ 45.00 | \$ 0.00 |
| CAH | ART 5670C | Digital Illustration | \$ 45.00 | \$ 0.00 | \$ 0.00 |
| CAH | ART 5698 | Concourse I | \$ 45.00 | \$ 45.00 | \$ 0.00 |
| CAH | ART 5811C | The Professional Practice... | \$ 45.00 | \$ 45.00 | \$ 0.00 |
| CAH | ART 5910 | Studio Concentration I | \$ 45.00 | \$ 45.00 | \$ 0.00 |
| CAH | ART 6281C | Serial Content and Classi... | \$ 45.00 | \$ 0.00 | \$ 0.00 |
| CAH | ART 6697 | Web Art II | \$ 45.00 | \$ 45.00 | \$ 0.00 |
| CAH | ART 6743C | Intermedia Sculpture | \$ 35.00 | \$ 35.00 | \$ 0.00 |
| CAH | ART 6911 | Studio Concentration II | \$ 45.00 | \$ 45.00 | \$ 0.00 |
| CAH | FIL 6596 | Advanced Directing Worksh... | \$ 0.00 | \$ 265.00 10. | \$ 0.00 |
| CAH | PGY 5108C | Advanced Techniques and C... | \$ 45.00 | \$ 0.00 | \$ 0.00 |
| CAH | TPA 5885C | Puppetry | \$ 30.00 | \$ 30.00 | \$ 0.00 |
| CAH | TPP 6216C | Theatre for Young Audienc... | \$ 45.00 | \$ 45.00 | \$ 0.00 |
| COS | ANG 6821 | Forensic Archeology Field... | \$ 22.00 | \$ 220.00 22. | \$ 0.00 |
| COS | BSC 5408L | Advanced Biology Laborato... | \$ 15.00 | \$ 0.00 | \$ 0.00 |

| | | | | | |
|-----|-----------|------------------------------|----------|----------|---------|
| COS | BSC 5824 | Biogeography | \$ 15.00 | \$ 0.00 | \$ 0.00 |
| COS | ENY 5006C | Entomology | \$ 40.00 | \$ 40.00 | \$ 0.00 |
| COS | PCB 5045 | Conservation Biology | \$ 15.00 | \$ 0.00 | \$ 0.00 |
| COS | PCB 5435C | Marine Ecology of Florida | \$ 45.00 | \$ 0.00 | \$ 0.00 |
| COS | PCB 5485 | Models in Ecology | \$ 15.00 | \$ 0.00 | \$ 0.00 |
| COS | PCB 5665C | Human Genetics | \$ 15.00 | \$ 0.00 | \$ 0.00 |
| COS | PCB 6107C | Advanced Cell Biology | \$ 15.00 | \$ 0.00 | \$ 0.00 |
| COS | PCB 6256C | Advanced Developmental Bi... | \$ 15.00 | \$ 0.00 | \$ 0.00 |
| COS | PCB 6328C | Landscape Ecology | \$ 15.00 | \$ 0.00 | \$ 0.00 |
| COS | PCB 6365 | Environmental Physiology | \$ 15.00 | \$ 0.00 | \$ 0.00 |
| COS | PCB 6556 | Conservation Genetics | \$ 15.00 | \$ 0.00 | \$ 0.00 |
| COS | PCB 6585C | Advanced Genetics | \$ 15.00 | \$ 0.00 | \$ 0.00 |
| COS | PCB 6675C | Evolutionary Biology | \$ 15.00 | \$ 0.00 | \$ 0.00 |
| COS | PCB 6727 | Comparative Animal Physio... | \$ 15.00 | \$ 0.00 | \$ 0.00 |
| COS | CHM 5451C | Techniques in Polymer Sci... | \$ 45.00 | \$ 62.69 | \$ 0.00 |
| COS | CHS 6535L | Forensic Analysis of Biol... | \$ 15.00 | \$ 0.00 | \$ 0.00 |
| COS | PHY 5817L | Building Physics Apparatu... | \$ 45.00 | \$ 45.00 | \$ 0.00 |
| COS | CLP 6195C | Introduction to Psychothe... | \$ 15.00 | \$ 10.00 | \$ 0.00 |
| COS | CLP 6441C | Individual Psychological ... | \$ 20.00 | \$ 19.54 | \$ 0.00 |
| COS | CLP 6449C | Career and Lifestyle Asse... | \$ 30.00 | \$ 31.43 | \$ 0.00 |
| COS | CLP 6459C | Human Sexuality, Marriage... | \$ 15.00 | \$ 0.00 | \$ 0.00 |
| COS | CLP 6460C | Introduction to Child, Ad... | \$ 15.00 | \$ 17.88 | \$ 0.00 |
| COS | CLP 7943C | Clinical Practicum | \$ 15.00 | \$ 15.00 | \$ 0.00 |
| ECS | CCE 5220 | Sustainable Infrastructur... | \$ 0.00 | \$ 0.00 | \$ 0.00 |
| ECS | EEL 5437C | Microwave Engineering | \$ 38.81 | \$ 40.00 | \$ 0.00 |
| ECS | EML 5532C | Computer-Aided Design for... | \$ 15.00 | \$ 0.00 | \$ 0.00 |
| ED | SPS 6125 | Preschool Psychoeducation... | \$ 42.00 | \$ 41.64 | \$ 0.00 |
| ED | SPS 6194 | Assessment of Special Nee... | \$ 45.00 | \$ 51.00 | \$ 0.00 |
| ED | ARE 5359 | Teaching Art K-12 | \$ 5.00 | \$ 5.00 | \$ 0.00 |
| ED | ARE 5454 | Studio Experiences in Art... | \$ 5.00 | \$ 10.00 | \$ 0.00 |
| ED | ARE 6195 | Teaching Art Appreciation... | \$ 5.00 | \$ 5.00 | \$ 0.00 |
| ED | ARE 6666 | Arts Advocacy | \$ 5.00 | \$ 5.00 | \$ 0.00 |
| ED | SCE 7935 | Seminar--Professional Wri... | \$ 35.00 | \$ 0.00 | \$ 0.00 |
| HPA | SPA 6410 | Aphasia and Related Disor... | \$ 30.00 | \$ 60.74 | \$ 0.00 |

| | | | | | |
|-----|-----------|------------------------------|----------|----------|---------|
| HPA | SPA 6417 | Cognitive/Communicative D... | \$ 38.00 | \$ 61.36 | \$ 0.00 |
| HPA | PHT 5241L | Therapeutic Exercise Lab ... | \$ 15.00 | \$ 19.43 | \$ 0.00 |
| HPA | PHT 6245L | Therapeutic Exercise II L... | \$ 15.00 | \$ 15.47 | \$ 0.00 |
| HPA | PHT 6381C | Cardiopulmonary Physical ... | \$ 15.00 | \$ 14.98 | \$ 0.00 |
| HPA | PHT 6716C | Advanced Orthopedic Physi... | \$ 25.00 | \$ 25.88 | \$ 0.00 |
| HPA | PHT 6720 | Wound Care and Profession... | \$ 45.00 | \$ 44.83 | \$ 0.00 |
| HPA | PHT 7134C | Physical Therapy Integrat... | \$ 15.00 | \$ 14.32 | \$ 0.00 |
| HPA | PHT 7722C | Physical Therapy Integrat... | \$ 15.00 | \$ 14.52 | \$ 0.00 |

MUN 5125**CAH-MUSIC****1(0,3)**

Concert Band: PR: Open to all graduate students by audition. Study and performance of music for large ensembles. May be used in the degree program a maximum of 4 times. *Odd Fall.*

Materials & Supply Fee proposed revision: from \$20.00 to \$20.00

Brief description of fee use:

Funds from this fee will be used to purchase sheet music used by student in the ensemble. Sheet music tends to deteriorate and get lost, so periodic replacement is necessary.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|----------------------|----------------------|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 1 | Ensemble Sheet Music | \$ 20.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 20.00 | | |
| per 1 student | | \$ 20.00 | | |

MUN 5145**CAH-MUSIC****1(0,4)**

Wind Ensemble: PR: Open to all graduate students by audition. Study and performance of music for wind ensemble and band. May be used in the degree program a maximum of 4 times. *Odd Fall.*

Materials & Supply Fee proposed revision: from \$20.00 to \$20.00

Brief description of fee use:

Funds from this fee will be used to purchase sheet music used by students in the ensemble. Sheet music tends to deteriorate and get lost, so periodic replacement is necessary. There is an identical fee on the corresponding undergraduate wind ensemble for the same purpose.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|----------------------|----------------------|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 1 | Ensemble Sheet Music | \$ 20.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 20.00 | | |
| per 1 student | | \$ 20.00 | | |

MUN 5215**CAH-MUSIC****1(0,5)**

Symphony Orchestra: PR: Open to all graduate students by audition. Rehearsal and performance of works from the symphonic repertoire. May be used in the degree program a maximum of 4 times. *Odd Fall.*

Materials & Supply Fee proposed revision: from \$20.00 to \$20.00

Brief description of fee use:

Funds from this fee will be used to purchase sheet music used by students in the ensemble. Sheet music tends to deteriorate and get lost, so periodic replacement is necessary.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|----------------------|----------------------|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 1 | Ensemble Sheet Music | \$ 20.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 20.00 | | |
| per 1 student | | \$ 20.00 | | |

MUN 5325**CAH-MUSIC****1(0,3)**

Women's Chorus: PR: Open to all graduate students by audition. Study and performance of choral music for women's voices. May be used in the degree program a maximum of 4 times. *Odd Fall.*

Materials & Supply Fee proposed revision: from \$20.00 to \$20.00

Brief description of fee use:

Funds from this fee will be used to purchase sheet music used by students in the ensemble. Sheet music tends to deteriorate and get lost, so periodic replacement is necessary.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|----------------------|----------------------|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 1 | Ensemble Sheet Music | \$ 20.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 20.00 | | |
| per 1 student | | \$ 20.00 | | |

MUN 5368L**CAH-MUSIC****1(0,3)**

Graduate Madrigal Singers: PR: Graduate standing in Music Education and C.I. Study of varied literature for small vocal ensembles. May be used in the degree program a maximum of 5 times.

Materials & Supply Fee proposed revision: from \$20.00 to \$20.00

Brief description of fee use:

Funds from this fee will be used to purchase sheet music used by students in the ensemble. Sheet music tends to deteriorate and get lost, so periodic replacement is necessary.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|-------------|-----------------|-----------|---------|
| | | | Committee | Provost |

| | | | | | |
|----------------------|---|--|-----------------|--------------------------|--------------------------|
| 1. | 1 | Ensemble sheet music (score and parts) | \$ 16.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 1 | performance folder | \$ 4.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$ 20.00 | | |
| per 1 student | | | \$ 20.00 | | |

MUN 5385L
CAH-MUSIC
1(0,3)

Graduate University Chorus: PR: Graduate standing in Music Education and C.I. Study and performance of large ensemble music. May be used in the degree program a maximum of 5 times.

Materials & Supply Fee proposed revision: from \$20.00 to \$20.00

Brief description of fee use:

Funds from this fee will be used to purchase sheet music used by students in the ensemble. Sheet music tends to deteriorate and get lost, so periodic replacement is necessary.

Each item below is per 1 students

| | | | Denied | | |
|--------------------|-------------|--|-----------------|--------------------------|--------------------------|
| # units/1 students | Description | cost/1 students | Committee | Provost | |
| 1. | 1 | Ensemble sheet music (score and parts) | \$ 16.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 1 | Performance Folders | \$ 4.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| | | Total: | \$ 20.00 | | |
| | | per 1 student | \$ 20.00 | | |

MUN 5465L
CAH-MUSIC
1(0,2)

Graduate Chamber Music: PR: Graduate standing in Music Education and C.I. The study and performance of vocal and/or instrumental chamber ensemble literature. Flexible instrumentation to meet student needs. May be used in the degree program a maximum of 5 times.

Materials & Supply Fee proposed revision: from \$20.00 to \$20.00

Brief description of fee use:

Funds from this fee will be used to purchase sheet music used by students in the ensemble. Sheet music tends to deteriorate and get lost, so periodic replacement is necessary.

Each item below is per 1 students

| | | | Denied | |
|--------------------|----------------------|-----------------|--------------------------|--------------------------|
| # units/1 students | Description | cost/1 students | Committee | Provost |
| 1. 1 | Ensemble Sheet Music | \$ 20.00 | <input type="checkbox"/> | <input type="checkbox"/> |

per 1 student \$ 20.00

1(0,3)

Early Music Ensemble: PR: Graduate standing in Music Education and C.I. Graduate ensemble experience with instruments and repertoire of the Medieval, Renaissance, and Baroque periods. May be used in the degree program a maximum of 5 times. .

Materials & Supply Fee proposed revision: from \$5.00 to \$5.00

Brief description of fee use:

Funds from this fee will be used to purchase sheet music used by students in the ensemble. Sheet music tends to deteriorate and get lost, so periodic replacement is necessary.

Each item below is per 1 students

| | | | Denied | |
|--------------------|----------------------------|-----------------|--------------------------|--------------------------|
| # units/1 students | Description | cost/1 students | Committee | Provost |
| 1. 1 | Ensemble Sheet music parts | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| | Total: | \$ 5.00 | | |
| | per 1 student | \$ 5.00 | | |

1(0,4)

Jazz Ensemble: PR: Audition, graduate or senior standing, and C.I. Study and performance of jazz big band music. May be used in the degree program a maximum of 4 times only when course content is different. *Fall, Spring.*

Materials & Supply Fee proposed revision: from \$20.00 to \$20.00

Brief description of fee use:

Funds from this fee will be used to purchase sheet music used by students in the ensemble. Sheet music tends to deteriorate and get lost, so periodic replacement is necessary.

Each item below is per 1 students

| | | | Denied | |
|--------------------|----------------------|-----------------|--------------------------|--------------------------|
| # units/1 students | Description | cost/1 students | Committee | Provost |
| 1. 1 | Ensemble Sheet Music | \$ 20.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| | Total: | \$ 20.00 | | |
| | per 1 student | \$ 20.00 | | |

MUN 5716L**CAH-MUSIC****1(0,2)**

Jazz Chamber Group: PR: Audition, graduate standing or senior standing, and C.I. Study and performance of jazz small group music. May be used in the degree program a maximum of 4 times. *Fall, Spring.*

Materials & Supply Fee proposed revision: from \$20.00 to \$20.00

Brief description of fee use:

Funds from this fee will be used to purchase sheet music used by students in the ensemble. Sheet music tends to deteriorate and get lost, so periodic replacement is necessary.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|----------------------|--|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 1 | Ensemble Sheet Music (score and parts) | \$ 20.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 20.00 | | |
| per 1 student | | \$ 20.00 | | |

MVJ 5359C**CAH-MUSIC****2(1,1)**

Jazz Drum Set V: PR: Audition, graduate standing or senior standing, and C.I. Study of jazz drum set literature, styles, and techniques. May be used in the degree program a maximum of 3 times only when course content is different. *Fall, Spring.*

Materials & Supply Fee proposed revision: from \$35.00 to \$35.00

Brief description of fee use:

Jazz drum set students practice on UCF owned instruments. Snare drums and bass drums on each drum set have "drum heads" that are struck repeatedly by the students. These heads are made of plastic or animal skin and break or rip on a regular basis. Tension rods are a part of the hardware that holds drums in place. While the hardware itself does not wear appreciably the tension rods do wear and must be replaced regularly. Cymbals are suspended via felts and need to be replaced as they wear out. Although breakage and wear occurs throughout the semester, all of these items need to be replaced at least annually.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|--|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 1 | Drum Heads (1 per student per semester @ \$25.00) | \$ 25.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. 1 | Tension Rods (1 per student per semester @ \$5.00) | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | | | |
|----------------------|-------|--|-----------------|--------------------------|--------------------------|
| 3. | 1 set | Cymbal Felts (1 per student per semester @ \$5.00) | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$ 35.00 | | |
| per 1 student | | | \$ 35.00 | | |

MVJ 6369C

CAH-MUSIC

2(1,1)

Jazz Drum Set VI: PR: Admission into the MA in Music and an audition. Advanced study of jazz drum set literature, styles and techniques; continuation of Jazz Drum Set V. May be used in the degree program a maximum of 3 times only when course content is different. *Fall, Spring.*

Materials & Supply Fee proposed revision: from \$35.00 to \$35.00

Brief description of fee use:

Jazz drum set students practice on UCF owned instruments. Snare drums and bass drums on each drum set have “drum heads” that are struck repeatedly by the students. These heads are made of plastic or animal skin and break or rip on a regular basis. Tension rods are a part of the hardware that holds drums in place. While the hardware itself does not wear appreciably the tension rods do wear and must be replaced regularly. Cymbals are suspended via felts and need to be replaced as they wear out. Although breakage and wear occurs throughout the semester, all of these items need to be replaced at least annually.

Each item below is per 1 students

| # units/1 students | | Description | cost/1 students | Denied | |
|----------------------|---|--|-----------------|--------------------------|--------------------------|
| | | | | Committee | Provost |
| 1. | 1 | Drum Head (1 per student per semester @\$25.00) | \$ 25.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 1 | Tension Rods (1 set per semester per student @ \$5.00) | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 1 | Cymbal felts (1 set per student per semester @ \$5.00) | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$ 35.00 | | |
| per 1 student | | | \$ 35.00 | | |

MVP 5451

CAH-MUSIC

2(1,0)

Percussion V: PR: Graduate status or senior standing and C.I. May be repeated for credit. *Fall, Spring.*

Materials & Supply Fee proposed revision: from \$35.00 to \$35.00

Brief description of fee use:

Percussion students practice on UCF owned equipment and instruments. Snare drums, bass drums, tom-toms. World Music drums, and timpani all have "drum heads" that are struck repeatedly by the students. These heads are made of plastic or animal skin and break or rip on a regular basis. The students practice on mallet keyboard instruments. The bars are suspended by a custom made rope breaks after a number of hours of the bars being struck. Cymbals are suspended via straps and felts and they need to be replaced as they wear out. Although breakage and wear occurs throughout the semester, all of these items need to be replaced at least annually.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|----------------------|--|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 1 | Drum Heads (1 per student per semester @ \$25) | \$ 25.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. 1 | Tension Rope (1 set per semester per student @ \$10) | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. 1 | Cymbal Felts (1 set per student per semester @ \$5) | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 35.00 | | |
| per 1 student | | \$ 35.00 | | |

MVP 6461**CAH-MUSIC****2(1,1)**

Percussion VI: PR: Admission into MA in Music degree program and audition. Intensive advanced study of percussion instruments. May be used in the degree program a maximum of 4 times. *Odd Fall.*

Materials & Supply Fee proposed revision: from \$35.00 to \$35.00

Brief description of fee use:

Percussion students practice on UCF owned equipment and instruments. Snare drums, bass drums, tom-toms. World Music drums, and timpani all have "drum heads" that are struck repeatedly by the students. These heads are made of plastic or animal skin and break or rip on a regular basis. The students practice on mallet keyboard instruments. The bars are suspended by a custom made rope breaks after a number of hours of the bars being struck. Cymbals are suspended via straps and felts and they need to be replaced as they wear out. Although breakage and wear occurs throughout the semester, all of these items need to be replaced at least annually.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|--|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 1 | Drum Heads (1 per student per semester @ \$25) | \$ 25.00 | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | | | |
|----------------------|---|--|-----------------|--------------------------|--------------------------|
| 2. | 1 | Tension Rods (1 set per semester per student @ \$5.00) | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 1 | Cymbal felts (1 set per student per semester @ \$5.00) | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$ 35.00 | | |
| per 1 student | | | \$ 35.00 | | |

ART 5280

CAH-SVAD

3(3,0)

Serial Content: Admission to Emerging Media MFA or Digital Media M.A., graduate standing, or C.I. Serial content, story forms, interactive narrative theory and practice for art, digital media and film. Traditional and non-traditional forms of visual and interactive storytelling. *Fall*.

Materials & Supply Fee proposed revision: from \$45.00 to \$45.00

Brief description of fee use:

This course satisfies a SVAD graduation requirement. The materials listed below are required to satisfy course assignments. Previously, students have purchased these materials on their own at greater expense. This fee reduces student costs for the course.

Each item below is per 1 students

| # units/1 students | | Description | cost/1 students | Denied | |
|--------------------|---|---|-----------------|--------------------------|--------------------------|
| | | | | Committee | Provost |
| 1. | 1 | Epson 350 mL Ultra Chrome HRD Ink Photo Black | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 1 | Epson 350 mL Ultra Chrome HRD Ink Matte Black | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 1 | Epson 350 mL Ultra Chrome HRD Ink Light Black | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | 1 | Epson 350 mL Ultra Chrome HRD Ink Cyan | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | 1 | Epson 350 mL Ultra Chrome HRD Ink Vivid Cyan | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | 1 | Epson 350 mL Ultra Chrome HRD Ink Vivid Magenta | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. | 1 | Epson 350 mL Ultra Chrome HRD Ink Vivid Light Magenta | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. | 1 | Epson 350 mL Ultra Chrome HRD Ink Yellow | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. | 1 | Epson 350 mL Maintenance Tank | \$ 2.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. | 1 | Epson Paper Cutting Blade | \$ 2.50 | <input type="checkbox"/> | <input type="checkbox"/> |

Each item below is per **12** students

Each item below is per 1 students

12

| | | | | | |
|----------------------|---|---|-----------------|--------------------------|--------------------------|
| 5. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Light Cyan | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Magenta | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Light Magenta | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Yellow | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. | 1 | Epson 110 mL Maintenance Tank | \$ 2.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. | 1 | Epson Printer Paper Cutting Blade | \$ 2.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$ 45.00 | | |
| per 1 student | | | \$ 45.00 | | |

ART 5811C

CAH-SVAD

3(3,1)

The Professional Practice of Art: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C (no graduate level prerequisite), graduate status or senior standing, or C.I. Seminar class on political information pertaining to professional practices in the art world. Overview of inventory processing, accounting, and the marketing of art. *Fall*.

Materials & Supply Fee proposed revision: from \$45.00 to \$45.00

Brief description of fee use:

This course satisfies a SVAD graduation requirement. The materials listed below are required to satisfy course assignments. Previously, students have purchased these materials on their own at greater expense. This fee reduces student costs for the course.

Each item below is per 1 students

| | | | Denied | | |
|--------------------|-------------|---|-----------|--------------------------|--------------------------|
| # units/1 students | Description | cost/1 students | Committee | Provost | |
| 1. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Black | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Matte Black | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Light Black | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Cyan | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Light Cyan | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Magenta | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | | | |
|----------------------|---|---|-----------------|--------------------------|--------------------------|
| 7. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Light Magenta | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Yellow | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. | 1 | Epson 110 mL Maintenance Tank | \$ 2.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. | 1 | Epson Printer Paper Cutting Blade | \$ 2.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$ 45.00 | | |
| per 1 student | | | \$ 45.00 | | |

ART 5910

CAH-SVAD

3(3,0)

Studio Concentration I: PR: Admission to MFA. Course is the primary for production of work in studio. Students will meet periodically with faculty to discuss progress. Professor will meet with the whole class periodically in order to facilitate a group critique of work completed. May be used in the degree program a maximum of 3 times. *Fall, Spring.*

Materials & Supply Fee proposed revision: from \$45.00 to \$45.00

Brief description of fee use:

This course satisfies a SVAD graduation requirement. The materials listed below are required to satisfy course assignments. Previously, students have purchased these materials on their own at greater expense. This fee reduces student costs for the course.

Each item below is per 1 students

| # units/1 students | | Description | cost/1 students | Denied | |
|--------------------|---|---|-----------------|--------------------------|--------------------------|
| | | | | Committee | Provost |
| 1. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Black | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Matte Black | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Light Black | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Cyan | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Light Cyan | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Magenta | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Light Magenta | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Yellow | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | | | |
|----------------------|---|-----------------------------------|-----------------|--------------------------|--------------------------|
| 9. | 1 | Epson 110 mL Maintenance Tank | \$ 2.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. | 1 | Epson Printer Paper Cutting Blade | \$ 2.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$ 45.00 | | |
| per 1 student | | | \$ 45.00 | | |

ART 6281C

CAH-SVAD

3(3,3)

Serial Content and Classic Form II: PR: Content and Form I. Studio course exploring the book form via digital technology (for book history, essential basic design principles, and typographical designs) and traditional methods. *Fall*.

Materials & Supply Fee proposed revision: from \$45.00 to \$0.00

Brief description of fee use:

Fee is no longer needed.

Each item below is per 12 students

| # units/12 students | Description | cost/12 students | Denied | |
|---------------------|----------------------|------------------|-----------|---------|
| | | | Committee | Provost |
| | Total: | \$ 0.00 | | |
| | per 1 student | \$ 0.00 | | |

ART 6697

CAH-SVAD

3(3,0)

Web Art II: PR: ART 5695, graduate standing, or C.I. Students explore various programs and pertinent software used in website design and implementation. *Fall*.

Materials & Supply Fee proposed revision: from \$45.00 to \$45.00

Brief description of fee use:

This course satisfies a SVAD graduation requirement. The materials listed below are required to satisfy course assignments. Previously, students have purchased these materials on their own at greater expense. This fee reduces student costs for the course.

Each item below is per 1 students

| | | | Denied | | |
|--------------------|-------------|--|-----------|--------------------------|--------------------------|
| # units/1 students | Description | cost/1 students | Committee | Provost | |
| 1. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Black | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Matte Black | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Light Black | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | | | |
|----------------------|---|---|-----------------|--------------------------|--------------------------|
| 4. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Cyan | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Light Cyan | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Magenta | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Light Magenta | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. | 1 | Epson 110 mL Ultra Chrome K3 Ink Photo Yellow | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. | 1 | Epson 110 mL Maintenance Tank | \$ 2.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. | 1 | Epson Printer Paper Cutting Blade | \$ 2.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$ 45.00 | | |
| per 1 student | | | \$ 45.00 | | |

ART 6743C

CAH-SVAD

3(3,3)

Intermedia Sculpture: PR: Admission to MFA. Enhancing material sense and repertoire regarding material selection, combination, and contextualization in static and dynamic projects. Design integration and enhanced structural awareness via media emphasized. *Occasional*.

Materials & Supply Fee proposed revision: from \$35.00 to \$35.00

Brief description of fee use:

This course satisfies a SVAD graduation requirement. The materials listed below are required to satisfy course assignments. Previously, students have purchased these materials on their own at greater expense. This fee reduces student costs for the course.

Each item below is per 1 students

| | | | | Denied | |
|--------------------|--------------------------------|-----------------|--|--------------------------|--------------------------|
| # units/1 students | Description | cost/1 students | | Committee | Provost |
| 1. 1 | Plaster of Paris Dry Mix, 25lb | \$ 10.00 | | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. 1 | Axner Sculptural Clay, 50lb | \$ 25.00 | | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 35.00 | | | |
| per 1 student | | \$ 35.00 | | | |

ART 6911

CAH-SVAD

3(3,0)

Studio Concentration II: PR: Admission to MFA and ART 5910. Continuation of Concentration I. The principle class for studio work production. May be used in the degree program a maximum of 2 times. *Fall.*

Materials & Supply Fee proposed revision: from \$45.00 to \$45.00

Brief description of fee use:

This course satisfies a SVAD graduation requirement. The materials listed below are required to satisfy course assignments. Previously, students have purchased these materials on their own at greater expense. This fee reduces student costs for the course.

Each item below is per 1 students

| # units/1 students | | Description | cost/1 students | Denied | |
|----------------------|---|---|-----------------|--------------------------|--------------------------|
| | | | | Committee | Provost |
| 1. | 1 | Epson 220 mL Ultra Chrome Ink Photo Black | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 1 | Epson 220 mL Ultra Chrome Ink Photo Matte Black | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 1 | Epson 220 mL Ultra Chrome Ink Photo Light Black | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | 1 | Epson 220 mL Ultra Chrome Ink Photo Cyan | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | 1 | Epson 220 mL Ultra Chrome Ink Photo Light Cyan | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | 1 | Epson 220 mL Ultra Chrome Ink Photo Magenta | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. | 1 | Epson 220 mL Ultra Chrome Ink Photo Light Magenta | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. | 1 | Epson 220 mL Ultra Chrome Ink Photo Yellow | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. | 1 | Epson Maintenance Tank | \$ 2.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. | 1 | Epson Printer Paper Cutting Blade | \$ 2.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$ 45.00 | | |
| per 1 student | | | \$ 45.00 | | |

FIL 6596

CAH-SVAD

3(3,0)

Advanced Directing Workshop for Film and Digital Media: PR: Admission to MFA Film & Digital Media-Entre Dig Cin track or C.I. Advanced directorial concepts and techniques used in film to elicit, support and direct compelling film performances. May be used in the degree program a maximum of 2 times only when course content is different. *Fall, Spring.*

Materials & Supply Fee proposed revision: from \$0.00 to \$265.39

Brief description of fee use:

This course satisfies a SVAD graduation requirement. The materials listed below are required to satisfy course assignments. Previously, students have purchased these materials on their own at greater expense. This fee reduces student costs for the course. Department/College requests fee of \$70.

Each item below is per 1 students

| # units/1 students | | Description | cost/1 students | Denied | |
|----------------------|---|--|-----------------|--------------------------|--------------------------|
| | | | | Committee | Provost |
| 1. | 1 | Lee Filters Master Location Lighting Gel Pack - (36) 12"x10" Sheets | \$ 45.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 2 | Filmtools Small Core 2" Gaffer Tape - 30 Yards (1) Black & (1) White | \$ 11.95 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 2 | Filmtools Small Core 1" Camera Tape - 30 Yards (1) Black & (1) White | \$ 6.95 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | 1 | Filmtools Small Core 2" Paper Tape - 30 Yards Photo Matte Black | \$ 17.65 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | 2 | KleenSlate Dry Marker & Eraser - Black | \$ 2.35 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | 1 | Orangewood Sticks - Pack of 5 | \$ 0.98 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. | 1 | Kimtech Delicate Task Wipes 4.4"x8.4" - Box of 280 Sheets | \$ 3.45 | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. | 1 | Pancro Lens Cleaning Fluid - 4 oz | \$ 15.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. | 1 | Duracell Procell Alkaline Batteries AA - Pack of 24 | \$ 10.97 | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. | 2 | Dust-Off Compressed Air Classic Duster - Refill Can | \$ 10.75 | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. | 1 | Puritan 6" Cotton Swab - Pack of 100 | \$ 1.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. | 1 | Tech Spray Isopropyl Alcohol Wipe | \$ 0.53 | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. | 1 | Gretag Macbeth X-Rite ColorChecker Custom White Balance Card | \$ 49.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. | 1 | Delta 1 18% Grey Card | \$ 10.75 | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. | 1 | Macbeth ColorChecker Color Chart | \$ 69.38 | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. | 1 | Diamond C47 Hardwood Spring Loaded Pins - Bag of 50 | \$ 3.20 | <input type="checkbox"/> | <input type="checkbox"/> |
| 17. | 1 | Eagle 1482 3-to-1 Electrical Cube Tap | \$ 4.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 18. | 1 | Cooper 419GY Ground Lift Adapter | \$ 0.98 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$265.39 | | |
| per 1 student | | | \$265.39 | | |

PGY 5108C**CAH-SVAD****3(2,4)**

Advanced Techniques and Concepts in Photography: PR: PGY 2401C, PGY 3410C and PGY 4420C, or admission into MFA graduate program. Advanced techniques and concepts in photography, introducing historic and contemporary photographic works. May be used in the degree program a maximum of 3 times. *Occasional*.

Materials & Supply Fee proposed revision: from \$45.00 to \$0.00

Brief description of fee use:

Each item below is per **12** students

| # units/12 students | Description | cost/12 students | Denied | |
|---------------------|----------------------|------------------|-----------|---------|
| | | | Committee | Provost |
| | Total: | \$ 0.00 | | |
| | per 1 student | \$ 0.00 | | |

TPA 5885C**CAH-THEA****2(2,2)**

Puppetry: PR: Admission to MFA graduate program or C.I. Puppetry as an art form in design and performance. *Odd Spring*.

Materials & Supply Fee proposed revision: from \$30.00 to \$30.00

Brief description of fee use:

Student projects in this course include design, construction, and performance of puppets/puppetry. Student fees cover some materials and supplies for the projects.

Each item below is per **1** students

| # units/1 students | Description | cost/1 students | Denied | |
|----------------------|-----------------|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 1 | Glue/ Adhesives | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. 1 | L200 Foam | \$ 20.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. 1 | Fabric/Fur | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 30.00 | | |
| per 1 student | | \$ 30.00 | | |

TPP 6216C**CAH-THEA****3(3,6)**

Theatre for Young Audiences Tour: PR: Admission to the graduate program in Theatre or C.I. Performance, administration and technical work on a touring production for young audiences. *Even Spring.*

Materials & Supply Fee proposed revision: from \$45.00 to \$45.00

Brief description of fee use:

During the course of the semester students produce, market, perform/tour a theatrical production. Student fees are used to provide materials for construction of costumes, props, scenery, and lighting for the production.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|----------------------|--------------|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 1 | 2x4 lumber | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. 1 | Plywood | \$ 10.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. 1 | Lighting Gel | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. 1 | Fabric | \$ 10.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. 1 | Paint | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. 1 | Foam | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. 1 | Adhesives | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 45.00 | | |
| per 1 student | | \$ 45.00 | | |

ANG 6821

COS-ANTHRO

3(3,0)

Forensic Archeology Field Methods: PR: Admission to Anthropology MA, Maya Studies GC, or C.I. Application of archeological techniques to the search, recovery, excavation and documentation of modern human remains. *Occasional.*

Materials & Supply Fee proposed revision: from \$22.00 to \$220.30

Brief description of fee use:

Part of the course objectives includes students having hands-on experience with archaeological field techniques used to survey, map, identify, document, handle, package, and conserve human remains. Fees will be used to purchase supplies for students to use in the completion of field exercises that address archaeological techniques and other class assignments involving the safe use of the department bone collections.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|-------------|-----------------|-----------|---------|
| | | | Committee | Provost |

| | | | | |
|----------------------|--|-----------------|--------------------------|--------------------------|
| 1. | all-weather metric paper for documentation of crime scenes/human remains | \$ 30.30 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | large metal scoops | \$ 34.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | compass | \$ 42.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | metric triangle rulers | \$ 30.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | plastic chopsticks for digging | \$ 26.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | Screens, screws, and wood for archaeological sifting screens | \$ 30.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. | large plastic spoons | \$ 28.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$220.30 | | |
| per 1 student | | \$220.30 | | |

BSC 5408L
COS-BIOL
3(0,9)

Advanced Biology Laboratory Techniques: PR: BS degree, C.I. This course will emphasize those biological techniques and resources necessary for students about to begin thesis research. Individual and small group instruction in current laboratory techniques, literature searches, and hands-on practice of techniques will be stressed. May not be repeated for credit. *Occasional*.

Materials & Supply Fee proposed revision: from \$15.00 to \$0.00

Brief description of fee use:

Program would like to remove this fee

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|----------------------|-----------------|-----------|---------|
| | | | Committee | Provost |
| | Total: | \$ 0.00 | | |
| | per 1 student | \$ 0.00 | | |

BSC 5824
COS-BIOL
4(4,0)

Biogeography: PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Study of geographic variation in nature, ranging from past to present and from genes to ecosystems. *Occasional*.

Materials & Supply Fee proposed revision: from \$15.00 to \$0.00

Brief description of fee use:

program would like to remove this fee.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|----------------------|-----------------|-----------|---------|
| | | | Committee | Provost |
| | Total: | \$ 0.00 | | |
| | per 1 student | \$ 0.00 | | |

ENY 5006C **COS-BIOL** **4(2,6)**

Entomology: PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Morphology, physiology, ontogeny, behavior, ecology and population biology of insects. *Occasional.*

Materials & Supply Fee proposed revision: from \$40.00 to \$40.00

Brief description of fee use:

Fees used to purchase items used during lab.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|----------------------|----------------|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 1 | aerial net | \$ 15.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. 1 | killing jar | \$ 3.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. 1 | assorted vials | \$ 2.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. 1 | pinning block | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. 1 | collection box | \$ 15.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 40.00 | | |
| per 1 student | | \$ 40.00 | | |

PCB 5045 **COS-BIOL** **4(4,0)**

Conservation Biology: PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Scientific basis of conservation; conservation of ecosystems, populations, exploited species, and endangered species. *Fall.*

Materials & Supply Fee proposed revision: from \$15.00 to \$0.00

Brief description of fee use:

program would like to remove fee.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|-------------|-----------------|-----------|---------|
| | | | Committee | Provost |

| | |
|----------------------|----------------|
| Total: | \$ 0.00 |
| per 1 student | \$ 0.00 |

PCB 5435C **COS-BIOL** **4(2,6)**

Marine Ecology of Florida: PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Survey of experimental methods used in the study of marine communities in central and southern Florida, combining field manipulation and readings from primary literature. *Odd Spring.*

Materials & Supply Fee proposed revision: from \$45.00 to \$0.00

Brief description of fee use:

program would like to remove this fee.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|-------------|-----------------|-----------|---------|
| | | | Committee | Provost |
| Total: | | \$ 0.00 | | |
| per 1 student | | \$ 0.00 | | |

PCB 5485 **COS-BIOL** **3(3,0)**

Models in Ecology: PCB 3044, MAC 2311C (or equivalent), and graduate status or senior standing or C.I. A survey of how simulation models are applied to ecological questions of both a theoretical and managerial nature. *Occasional.*

Materials & Supply Fee proposed revision: from \$15.00 to \$0.00

Brief description of fee use:

program would like to remove this fee.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|----------------------|-----------------|-----------|---------|
| | | | Committee | Provost |
| | Total: | \$ 0.00 | | |
| | per 1 student | \$ 0.00 | | |

PCB 5665C **COS-BIOL** **4(3,2)**

Human Genetics: PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Human Genetics provides a theoretical framework for understanding the biology of the human species. *Occasional.*

Materials & Supply Fee proposed revision: from \$15.00 to \$0.00

Brief description of fee use:

Department would like to remove fee.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|----------------------|-----------------|-----------|---------|
| | | | Committee | Provost |
| | Total: | \$ 0.00 | | |
| | per 1 student | \$ 0.00 | | |

PCB 6107C

COS-BIOL

4(3,2)

Advanced Cell Biology: PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Review of selected topics in cell biology with emphasis on current research in areas of membrane structure, protein targeting, cytoskeleton, signalling and cell cycle. *Occasional.*

Materials & Supply Fee proposed revision: from \$15.00 to \$0.00

Brief description of fee use:

Program would like to remove current fee.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|----------------------|-----------------|-----------|---------|
| | | | Committee | Provost |
| | Total: | \$ 0.00 | | |
| | per 1 student | \$ 0.00 | | |

PCB 6256C

COS-BIOL

4(3,2)

Advanced Developmental Biology: PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Lecture and literature review of emerging areas in plant and animal developmental biology. *Occasional.*

Materials & Supply Fee proposed revision: from \$15.00 to \$0.00

Brief description of fee use:

Program would like to remove current fee.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|----------------------|-----------------|-----------|---------|
| | | | Committee | Provost |
| | Total: | \$ 0.00 | | |
| | per 1 student | \$ 0.00 | | |

PCB 6328C **COS-BIOL** **4(3,2)**

Landscape Ecology: PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Influence of spatial heterogeneity on ecological processes. Emphasizes quantitative methods (e.g., GIS, remote sensing and modeling) to characterize landscape patterns and dynamics. *Occasional*.

Materials & Supply Fee proposed revision: from \$15.00 to \$0.00

Brief description of fee use:

program would like to remove fee.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|----------------------|-----------------|-----------|---------|
| | | | Committee | Provost |
| | Total: | \$ 0.00 | | |
| | per 1 student | \$ 0.00 | | |

PCB 6365 **COS-BIOL** **3(3,0)**

Environmental Physiology: PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. The effects of major environmental factors on the physiology of plants and animals. *Occasional*.

Materials & Supply Fee proposed revision: from \$15.00 to \$0.00

Brief description of fee use:

program would like to remove fee.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|----------------------|-----------------|-----------|---------|
| | | | Committee | Provost |
| | Total: | \$ 0.00 | | |
| | per 1 student | \$ 0.00 | | |

PCB 6556 **COS-BIOL** **3(3,0)**

Conservation Genetics: PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Applications of genetic models to the understanding and conservation of animal and plant populations. *Occasional.*

Materials & Supply Fee proposed revision: from \$15.00 to \$0.00

Brief description of fee use:

program would like to remove fee.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|----------------------|-----------------|-----------|---------|
| | | | Committee | Provost |
| | Total: | \$ 0.00 | | |
| | per 1 student | \$ 0.00 | | |

PCB 6585C

COS-BIOL

4(3,2)

Advanced Genetics: PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Recent advances in genetics, stressing molecular and developmental trends. *Occasional.*

Materials & Supply Fee proposed revision: from \$15.00 to \$0.00

Brief description of fee use:

Program would like to remove current fee.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|----------------------|-----------------|-----------|---------|
| | | | Committee | Provost |
| | Total: | \$ 0.00 | | |
| | per 1 student | \$ 0.00 | | |

PCB 6675C

COS-BIOL

4(3,2)

Evolutionary Biology: PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Review of modern concepts and theories in evolutionary biology with emphasis on readings in the primary literature. *Occasional.*

Materials & Supply Fee proposed revision: from \$15.00 to \$0.00

Brief description of fee use:

program wants to remove fee.

Each item below is per 1 students

Denied

| # units/1 students | Description | cost/1 students | Committee | Provost |
|----------------------|-------------|-----------------|-----------|---------|
| Total: | | \$ 0.00 | | |
| per 1 student | | \$ 0.00 | | |

PCB 6727 **COS-BIOL** **3(3,0)**

Comparative Animal Physiology: PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Comparison of structural and functional adaptations of animal organ systems. Emphasis upon maximization of fitness under given environmental conditions. *Occasional*.

Materials & Supply Fee proposed revision: from \$15.00 to \$0.00

Brief description of fee use:

program would like to remove fee.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Committee | Provost | Denied |
|----------------------|-------------|-----------------|-----------|---------|--------|
| Total: | | \$ 0.00 | | | |
| per 1 student | | \$ 0.00 | | | |

CHM 5451C **COS-CHEM** **3(1,5)**

Techniques in Polymer Science: PR: CHM 2211 and CHM 3410, graduate status or senior standing, or C.I. A laboratory and lecture course designed to introduce students to the major polymerization mechanisms along with polymer characterization and processing methods using modern instrumentation. *Odd Spring*.

Materials & Supply Fee proposed revision: from \$45.00 to \$62.69

Brief description of fee use:

Program would like to continue current fee. This advanced lab course requires the consumption of many specialty chemicals and supplies. These specialty chemicals cost a lot. The current lab fee does not even cover half the cost incurred for this course.

Each item below is per 12 students

| # units/12 students | Description | cost/12 students | Committee | Provost | Denied |
|---------------------|-------------------------------|------------------|--------------------------|--------------------------|--------|
| 1. 1 per student | Benzoin 98% 5G, AC 105510050 | \$ 11.07 | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2. 1 lb B274 | Benzoyl Peroxide R | \$ 36.69 | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3. 1 AC127140010 | Methyl Methacrylate 99% 1 LT | \$ 33.95 | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4. 1 19-822-675 | 20X100X.006 POLY BLK SHEETING | \$ 36.30 | <input type="checkbox"/> | <input type="checkbox"/> | |

| | | | | | |
|----------------------|-----------------|-------------------------------------|-----------------|--------------------------|--------------------------|
| 5. | 1 AC164252500 | ACRYLIC ACID, 99% 50 ML | \$ 13.69 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | ICN19004980, 1 | T-BUTYL HYDROPEROXIDE 100ML | \$ 12.55 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. | 1 AC197275000 | molecular sieves, 4A, 500 GR | \$ 27.31 | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. | 2 S159-500 | silicon oil 500 ml | \$ 67.80 | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. | 1 04507 | Strene Monomer Cert 1L | \$ 17.97 | <input type="checkbox"/> | <input type="checkbox"/> |
| | 2 pk of 10: | | | | |
| 10. | FB57879 | STP FB TURNOVER 37 RED 10/PK | \$ 7.54 | <input type="checkbox"/> | <input type="checkbox"/> |
| | | AMMONIUM PERSULFATE, 90% 1 | | | |
| 11. | AC201530010 | KG | \$ 25.75 | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. | AC126190010 | METHYL ACRYLATE99% 1 LT | \$ 16.81 | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. | S271-1 | sodium chloride cert acs 1 kg | \$ 13.93 | <input type="checkbox"/> | <input type="checkbox"/> |
| | | SODIUM LAURYL SULFATE 100G | | | |
| 14. | S799941 | PWD | \$ 11.92 | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. | AC149670010 | 2 BUTANONE 99+% 1 liter (regulated) | \$ 21.20 | <input type="checkbox"/> | <input type="checkbox"/> |
| | | N-BUTYLLITHIUM, 2.5 M SOL 100 | | | |
| 16. | AC213351000 | ML | \$ 22.30 | <input type="checkbox"/> | <input type="checkbox"/> |
| 17. | 12: 09-311-7 | STIRRIING MAGNET IN GLASS | \$ 196.68 | <input type="checkbox"/> | <input type="checkbox"/> |
| 18. | S80031 | hexamethylene diamine 100 g | \$ 11.12 | <input type="checkbox"/> | <input type="checkbox"/> |
| 19. | 1: A92-500 | PHENOL REAGENT ACS 500 G | \$ 33.24 | <input type="checkbox"/> | <input type="checkbox"/> |
| | | SPEC JAR FORCEP 300 MM | | | |
| 20. | 4: 10-316C | CHROM | \$ 50.04 | <input type="checkbox"/> | <input type="checkbox"/> |
| | | PYRIDINE CERTIFIED ACS 500 ML | | | |
| 21. | 1: P368-500 | (regulated) | \$ 27.75 | <input type="checkbox"/> | <input type="checkbox"/> |
| 22. | 1: S75197 | SEBOCOYL CHLORIDE 25 ML | \$ 21.32 | <input type="checkbox"/> | <input type="checkbox"/> |
| 23. | 1:AC138015000 | TETRACHLOROETHYLENE 99% | \$ 11.40 | <input type="checkbox"/> | <input type="checkbox"/> |
| 24. | 1:AC122661000 | isophthaloyl dichlorida, 100 gr | \$ 13.45 | <input type="checkbox"/> | <input type="checkbox"/> |
| 25. | 1 PK: 22-112151 | Dis alum spt cult/wegh 100/pk | \$ 10.45 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$752.23 | | |
| per 1 student | | | \$ 62.69 | | |

CHS 6535L

COS-CHEM

3(1,6)

Forensic Analysis of Biological Materials: PR: CHS 6535, PCB 4524, C.I. and satisfaction of biology requirements. A laboratory course for forensic molecular biologists covering the procedures for recovering and typing DNA from evidentiary materials. *Occasional*.

Materials & Supply Fee proposed revision: from \$15.00 to \$0.00

Brief description of fee use:

Program would like to remove fee.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|----------------------|-----------------|-----------|---------|
| | | | Committee | Provost |
| | Total: | \$ 0.00 | | |
| | per 1 student | \$ 0.00 | | |

PHY 5817L**COS-PHYS****1(0,3)**

Building Physics Apparatus: PR: Graduate standing or senior standing and C.I. Hands-on shop course. Focus will be machine shop practice with possible extension to printed circuit boards and glass work.

Materials & Supply Fee proposed revision: from \$45.00 to \$45.00

Brief description of fee use:

Program would like to continue current fee. Each student must have his or her own measuring instruments, expendable cutting tools, and safety equipment. Items suitable for precision machine shop work are not available in hardware stores, and are best chosen and purchased by the instructor. Students will keep these items after completion of the course.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|----------------------|---------------------|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. | Shop safety glasses | \$ 10.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | End mills | \$ 10.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | Vernier calipers | \$ 8.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | Edge finder | \$ 10.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | Center drill | \$ 7.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 45.00 | | |
| per 1 student | | \$ 45.00 | | |

CLP 6195C**COS-PSYCH****3(2,2)**

Introduction to Psychotherapy: PR: Graduate admission and C.I. Counseling theory with experimental lab component including practice in specific techniques in counseling. *Odd Spring.*

Materials & Supply Fee proposed revision: from \$15.00 to \$10.00

Brief description of fee use:

Each student will receive a 16 GB SDHC memory card to be consumed during the semester while videotaping role-played counseling sessions.

Each item below is per **15** students

| # units/15 students | Description | cost/15 students | Denied | |
|----------------------|---|------------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 15 | 16 GB SDHC Memory Cards (SanDisk or similar) | \$ 150.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$150.00 | | |
| per 1 student | | \$ 10.00 | | |

CLP 6441C**COS-PSYCH****3(2,2)**

Individual Psychological Assessment I: PR: Graduate admission and C.I. Theory and techniques of psychological assessment with emphasis on intake interviewing, cognitive and personality assessment, and report writing. *Fall.*

Materials & Supply Fee proposed revision: from \$20.00 to \$19.54

Brief description of fee use:

Students will use the blank forms associated with the tests attached to gain experience in assessing clients' risk for externalizing behavior disorders. Department would like to round fee to \$20.

Each item below is per **1** students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|---|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. | Beck Depression Inventory-II (BDI-II) Manual Scoring Record Form | \$ 2.20 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | Beck Anxiety Inventory (BAI) Manual Scoring Record Form | \$ 2.20 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | Beck Suicide Scale (BSS) Manual Scoring Record Form | \$ 2.20 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | Beck Hopelessness Inventory (BHS) Manual Scoring Record Form | \$ 2.20 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | SCL-90-R Manual Scoring Answer Sheet (\$1.28 x 2 per student) | \$ 2.56 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | SCL-90-R Manual Scoring Profile Forms, Nonpatient Adolescent | \$ 0.59 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. | SCL-90-R Manual Scoring Profile Forms, Nonpatient Adult | \$ 0.59 | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | | |
|----------------------|---|-----------------|--------------------------|--------------------------|
| 8. | Child Behavior Checklist, ages 6-18 (CBCL) (\$0.50 x 2 per student) | \$ 1.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. | CBCL 6-18 Boys Handscoring Profile | \$ 0.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. | CBCL 6-18 Girls Handscoring Profile | \$ 0.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. | CBCL 6-18 DSM-5 Handscoring Profile | \$ 0.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. | Teacher's Report Form, ages 6-18 (TRF) (\$0.50 x 2 per student) | \$ 1.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. | TRF 6-18 Boys Handscoring Profile | \$ 0.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. | TRF 6-18 Girls Handscoring Profile | \$ 0.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. | TRF 6-18 DSM-5 Handscoring Profile | \$ 0.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. | Youth Self-Report, ages 11-18 (YSR) (\$0.50 x 2 per student) | \$ 1.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 17. | YSR 11-18 Handscoring Profile | \$ 0.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 18. | YSR 11-18 DSM-5 Handscoring Profile | \$ 0.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 19.54 | | |
| per 1 student | | \$ 19.54 | | |

CLP 6449C

COS-PSYCH

3(2,1)

Career and Lifestyle Assessment: PR: CLP 6441C or C.I. Application and theory of obtaining, integrating, and utilizing career, vocational, and lifestyle assessment in clinical settings such as rehabilitation centers, mental health centers, and hospitals. *Spring*.

Materials & Supply Fee proposed revision: from \$30.00 to \$31.43

Brief description of fee use:

Department would like to continue current fee. This is an assessment course that requires students to use copyrighted forms, worksheets, and materials that are itemized below.

Each item below is per 1 students

| | | | Denied | |
|--------------------|---|-----------------|--------------------------|--------------------------|
| # units/1 students | Description | cost/1 students | Committee | Provost |
| 1. 45 | WJ III Tests of Achievement, Form A Test Records - 2/student | \$ 6.56 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. 45 | CAI-Enhanced Q Local Interpretive Report | \$ 9.65 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. 45 | ABAS-II Adult Forms (\$2.72 x 2 administrations per student) | \$ 5.44 | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | | | |
|----------------------|----|--|-----------------|--------------------------|--------------------------|
| 4. | 45 | Vineland-II Survey Interview Forms (\$2.96 - twice/student) | \$ 5.92 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | 15 | Quality of Life Inventory answer and worksheets | \$ 2.14 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | 45 | WRAT - 4 Blue Test/Response Forms | \$ 1.72 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$ 31.43 | | |
| per 1 student | | | \$ 31.43 | | |

CLP 6459C
COS-PSYCH
3(2,2)

Human Sexuality, Marriage, and Sex Therapies: PR: Graduate admission, and C.I. Human sexuality, theory and practice of specific techniques of marriage and sex therapy. *Occasional.*

Materials & Supply Fee proposed revision: from \$15.00 to \$0.00

Brief description of fee use:

Program would like to remove current fee.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied Committee | Provost |
|----------------------|-------------|-----------------|---------------------|---------|
| Total: | | \$ 0.00 | | |
| per 1 student | | \$ 0.00 | | |

CLP 6460C
COS-PSYCH
3(2,2)

Introduction to Child, Adolescent, and Family Therapies: PR: Graduate admission, and C.I. Theories and practices of child, adolescent and family therapies. Includes practice in specific techniques. *Occasional.*

Materials & Supply Fee proposed revision: from \$15.00 to \$17.88

Brief description of fee use:

Students will use the blank forms associated with the tests below to gain experience in assessing clients' risk for externalizing behavior disorders.

Each item below is per 15 students

| | | | Denied | |
|---------------------|---|------------------|--------------------------|--------------------------|
| # units/15 students | Description | cost/15 students | Committee | Provost |
| 1. 45 | Suicidal Ideation Questionnaire Answer Sheets | \$ 104.40 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. 45 | Suicidal Ideation Questionnaire Answer Sheets (Junior High Version) | \$ 104.40 | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | | | |
|----------------------|----|---|-----------------|--------------------------|--------------------------|
| 3. | 45 | Structured Assessments of Violence Risk in Youth Answer Sheets | \$ 59.40 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$268.20 | | |
| per 1 student | | | \$ 17.88 | | |

CLP 7943C
COS-PSYCH
VAR(VAR,VAR)

Clinical Practicum: PR: Acceptance to Clinical Psychology Ph.D. program or C.I. Clinical activities performed in an approved university or community setting under faculty/staff supervision. This course is intended for the Ph.D. in Clinical Psychology, in certain instances graduate students in other programs may enroll. Graded S/U. May be used in the degree program up to a maximum of 12 credits. *Fall, Spring, Summer.*

Materials & Supply Fee proposed revision: from \$15.00 to \$15.00

Brief description of fee use:

The program would like to continue the current fee as is.

Each item below is per 1 students

| # units/1 students | | Description | cost/1 students | Denied | |
|----------------------|---|--|-----------------|--------------------------|--------------------------|
| | | | | Committee | Provost |
| 1. | 1 | WISC Intelligence Scale forms (child) | \$ 2.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 1 | CBCL (Child Behavior Checklist) rating forms | \$ 2.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 1 | Child Depression Inventory Forms | \$ 1.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | 1 | Child Fear Survey Forms | \$ 1.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | 1 | WAIS Intelligence Scale forms (adults) | \$ 2.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | 1 | MMPI forms (personality inventory) | \$ 2.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. | 1 | TRF (teacher rating) forms | \$ 2.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. | 1 | Wechsler Child Memory Scale forms | \$ 1.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. | 1 | Prorated cost for new test kits (\$400-800) renewed 3-4 years | \$ 2.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$ 15.00 | | |
| per 1 student | | | \$ 15.00 | | |

CCE 5220
ECS-CECE
3(3,0)

Sustainable Infrastructure Systems: STA 3032 Introduce the principles of sustainability as they relate to the built environment and infrastructure systems; sustainability metrics; life cycle assessment; resilience; green building principles. *Odd Spring.*

Materials & Supply Fee proposed revision: from \$0.00 to \$0.00

Brief description of fee use:

Each item below is per **0** students

| # units/0 students | Description | cost/0 students | Denied | |
|--------------------|-------------|-----------------|-----------|---------|
| | | | Committee | Provost |
| Total: | | \$ 0.00 | | |
| per 1 student | | \$ 0.00 | | |

| | | |
|------------------|----------------|---------------|
| EEL 5437C | ECS-ECE | 4(3,3) |
|------------------|----------------|---------------|

Microwave Engineering: PR: EEL 3470 or C.I. Transmission line theory, Smith charts, S-parameters, simple impedance matching circuits, wave guides, resonators, basic microwave measurements. *Fall*.

Materials & Supply Fee proposed revision: from \$38.81 to \$40.00

Brief description of fee use:

This fee covers the expendable, consumable, and disposable items that are utilized by this course.

Each item below is per **1** students

| # units/1 students | Description | cost/1 students | Denied | |
|----------------------|---|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 8 | RF connectors | \$ 32.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. 1 | Solder, Soldering Iron Tip, Solder Wick, Hardware | \$ 2.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. 1 | TRF Foil & Toner Transfer Paper | \$ 4.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. 1 | Etchant | \$ 2.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 40.00 | | |
| per 1 student | | \$ 40.00 | | |

| | | |
|------------------|----------------------|---------------|
| EML 5532C | ECS-MECH/AERO | 3(2,3) |
|------------------|----------------------|---------------|

Computer-Aided Design for Manufacture: PR: EGN 4535C. Builds on introductory material covered in EML 4535C. Topics include computer modeling for the synthesis, simulation, design and manufacture of mechanical, thermal, and aerospace systems. *Occasional*.

Materials & Supply Fee proposed revision: from \$15.00 to \$0.00

Brief description of fee use:

The department no longer expects a need for a fee on this course.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|----------------------|-----------------|-----------|---------|
| | | | Committee | Provost |
| | Total: | \$ 0.00 | | |
| | per 1 student | \$ 0.00 | | |

SPS 6125

ED-CFCS

3(3,0)

Preschool Psychoeducational Assessment: PR: Graduate standing and C.I. Analysis of test theory and practice in administration, scoring, and interpretation of instruments assessing cognitive, visual-motor ability and adaptive behavior with preschool children. *Spring*.

Materials & Supply Fee proposed revision: from \$42.00 to \$41.64

Brief description of fee use:

Fee is to cover the cost of expendable and consumable protocols that are used one time during this assessment course. The protocols are beyond the normal materials and supplies used in a classroom and are similar to disposable gloves, alcohol pads, and tongue blades all of which are only used one time and are then rendered useless.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|----------------------|--|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 4 | Eight Battelle Developmental Inventory II Workbooks 2.91 | \$ 23.28 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. 4 | Battelle Developmental Inventory II Screener forms 1.68 | \$ 6.72 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. 4 | Battelle Development Inventory II Scoring Forms 2.91 | \$ 11.64 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 41.64 | | |
| per 1 student | | \$ 41.64 | | |

SPS 6194

ED-CFCS

3(3,0)

Assessment of Special Needs: PR: SPS 6191, SPS 6192. Measurement of social, behavioral, and emotional functioning in children and adolescents. *Occasional*.

Materials & Supply Fee proposed revision: from \$45.00 to \$51.00

Brief description of fee use:

Fee is to cover the cost of expendable and consumable protocols that are used one time during this assessment course. The protocols are beyond the normal materials and supplies used in a classroom and are similar to disposable gloves, alcohol pads, and tongue blades all of which are only used one time and are then rendered useless.

Each item below is per 1 students

| # units/1 students | | Description | cost/1 students | Denied | |
|----------------------|---|----------------------------------|-----------------|--------------------------|--------------------------|
| | | | | Committee | Provost |
| 1. | 4 | Vineland Survey Forms 2.58 each | \$ 10.32 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 4 | Vinelad Parent Forms 1.13 each | \$ 4.52 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 4 | Classroom Rating Forms 2.54 each | \$ 10.16 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | 4 | DAS II School Age Record Forms | \$ 13.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | 4 | DAS II Pre-School Record Forms | \$ 13.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$ 51.00 | | |
| per 1 student | | | \$ 51.00 | | |

ARE 5359**ED-TL&L****4(4,0)**

Teaching Art K-12: PR: Admission to MA in Art Education, graduate standing or C.I. Transition from university art practices to public school teaching of art. Organize, design, and analyze art learning for students K-12. *Summer.*

Materials & Supply Fee proposed revision: from \$5.00 to \$5.00

Brief description of fee use:

Each item below is per 1 students

| # units/1 students | | Description | cost/1 students | Denied | |
|----------------------|---|-------------------|-----------------|--------------------------|--------------------------|
| | | | | Committee | Provost |
| 1. | 1 | Arts and supplies | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$ 5.00 | | |
| per 1 student | | | \$ 5.00 | | |

ARE 5454**ED-TL&L****3(3,0)**

Studio Experiences in Art Education: PR: Graduate admission or C.I. Materials available for instruction in public schools will be explored in depth in relation to their appropriateness and productive qualities. May be repeated for credit. *Spring, Summer.*

Materials & Supply Fee proposed revision: from \$5.00 to \$10.00

Brief description of fee use:

In all art classes, the students receive high quality paper, various graphic and drawing materials, various paints, and ceramic materials from the Materials and Supplies fee.

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|----------------------|----------------------|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 1 | Art and supplies fee | \$ 10.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 10.00 | | |
| per 1 student | | \$ 10.00 | | |

ARE 6195**ED-TL&L****3(2,1)**

Teaching Art Appreciation with Interdisciplinary Strategies: PR: Graduate status and public school teaching experience. Focuses on the examination of art appreciation examples and concepts toward planning curriculum (interdisciplinary for the study of art history, criticism, and aesthetics). *Fall*.

Materials & Supply Fee proposed revision: from \$5.00 to \$5.00

Brief description of fee use:

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|----------------------|-------------------|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 1 | Arts and supplies | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 5.00 | | |
| per 1 student | | \$ 5.00 | | |

ARE 6666**ED-TL&L****3(2,1)**

Arts Advocacy: Graduate Standing or C.I. The study and development of plans to produce arts advocacy programs for the public school system. *Occasional*.

Materials & Supply Fee proposed revision: from \$5.00 to \$5.00

Brief description of fee use:

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|-------------------|-----------------|--------------------------|--------------------------|
| | | | Committee | Provost |
| 1. 1 | Arts and supplies | \$ 5.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | \$ 5.00 | | |

per 1 student \$ 5.00

\$ 5.00

SCE 7935

ED-TL&L

3(3,0)

Seminar--Professional Writing/Grants in Science Education: PR: Admission to the PhD in Education or C.I. The focus of the course is on scholarly writing and grant writing in science teaching, learning, assessment and relationships.

Materials & Supply Fee proposed revision: from \$35.00 to \$0.00

Brief description of fee use:

Each item below is per 1 students

| # units/1 students | Description | cost/1 students | Denied | |
|--------------------|----------------------|-----------------|-----------|---------|
| | | | Committee | Provost |
| | Total: | \$ 0.00 | | |
| | per 1 student | \$ 0.00 | | |

SPA 6410**HPA-COM SC&DIS**

3(3,0)

Aphasia and Related Disorders: PR: Admission to M.A. in Communication Sciences and Disorders or C.I. Evaluation and treatment of language disorders in adults with damage to the central nervous system, with an emphasis on etiology and differential diagnosis. *Fall, Spring.*

Materials & Supply Fee proposed revision: from \$30.00 to \$60.74

Brief description of fee use:

Each item below is per **35** students

| | | | Denied | | |
|---------------------|---|------------------|--------------------------|--------------------------|--|
| # units/35 students | Description | cost/35 students | Committee | Provost | |
| 1. 2 | WAB-R Record Forms - Combo - Part 1 (Pkg of 20)and Part 2 (Pkg of 10) | \$ 130.00 | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2. 2 | WAB-R Bedside Record Forms - Pkg of 25 | \$ 54.00 | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3. 2 | BDAE - 3 Long Form Record Booklets - Pkg of 25 | \$ 74.00 | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4. 2 | BDAE - 3 Short Form Record Booklets (Pkg of 25) | \$ 74.00 | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5. 2 | BDAE-3 BNT Record Booklets (Pkg of 25) | \$ 74.00 | <input type="checkbox"/> | <input type="checkbox"/> | |

| | | | | | |
|----------------------|---|--|------------------|--------------------------|--------------------------|
| 6. | 2 | CLQT English Record Forms/Response Booklets (Pkg of 25 each) | \$ 140.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. | 2 | ADP Record Forms (25) | \$ 116.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. | 2 | CADL-2 Examiner Record Booklets (25) | \$ 90.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. | 2 | CADL-2 Patient Response Forms (25) | \$ 56.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. | 2 | Psycholinguistic Assessments of Language Processing in Aphasia/Protocols | \$ 900.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. | 2 | FLCI Score Form Sheets (25) | \$ 46.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. | 2 | RCBA-2 Profile/Summary Record Forms (25) | \$ 102.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. | 1 | Comprehensive Aphasia Test/Protocols | \$ 270.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$2126.00 | | |
| per 1 student | | | \$ 60.74 | | |

SPA 6417

HPA-COM SC&DIS

3(3,0)

Cognitive/Communicative Disorders: PR: SPA 6410 or C.I. Evaluation and treatment of right hemisphere dysfunctions, traumatic brain injury, and dementias, with special emphasis on memory, cognition, pragmatics and other issues affecting functional communication. *Spring.*

Materials & Supply Fee proposed revision: from \$38.00 to \$61.36

Brief description of fee use:

Each item below is per **35** students

| # units/35 students | | Description | cost/35 students | Denied | |
|---------------------|---|--|------------------|--------------------------|--------------------------|
| | | | | Committee | Provost |
| 1. | 2 | FLCI Score Form Sheets (25) | \$ 46.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 2 | ABCD Response Record Forms (25) | \$ 80.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 2 | ABCD Scoring and Interpretation Card | \$ 46.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | 1 | Rivermead Behavioural Memory Test for Children (RBMT-C) | \$ 199.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | 1 | Behavior Rating Inventory of Executive Function (KIT) | \$ 240.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | 1 | MIRBI-2: The Mini Inventory of Right Brain Injury - Second Edition | \$ 183.00 | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | | | |
|----------------------|---|---|------------------|--------------------------|--------------------------|
| 7. | 2 | CLQT English Record Forms/Response booklets (Pkg of 25 each) | \$ 140.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. | 2 | WAB-R Record Forms - Combo - Part 1 (Pkg of 20) and Part 2 (Pkg of 10) | \$ 130.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. | 2 | WAB-R Bedside Record Forms - Pkg of 25 | \$ 54.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. | 2 | RIPA-2 Record Forms (25) | \$ 124.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. | 2 | RIPA-2 Ross Information Processing Assessment Second Edition Summary Forms (25) | \$ 80.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. | 2 | Forms: SCATBI Record Forms | \$ 210.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. | 1 | Delis-Kaplan Executive Function System | \$ 615.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$2147.50 | | |
| per 1 student | | | \$ 61.36 | | |

PHT 5241L

HPA-HP

2(0,4)

Therapeutic Exercise Lab I: PR: Therapeutic Exercise I. Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction. *Spring.*

Materials & Supply Fee proposed revision: from \$15.00 to \$19.43

Brief description of fee use:

This is a lab course emphasizing the therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction. Specifically, this course is an introduction to therapeutic exercise and evaluation skills. The course includes foundational concepts of therapeutic exercise, and theory related to range of motion, resistance, stretching, mobilization and implications for special populations. The utilization of scientific principles, problem-solving, and clinical observation will provide students with a thorough understanding of exercise principles used by physical therapists in the clinical setting. A variety of equipment is required for these therapeutic interventions.

Each item below is per **36** students

| | | | Denied | | |
|---------------------|----|--|------------------|--------------------------|--------------------------|
| # units/36 students | | Description | cost/36 students | Committee | Provost |
| 1. | 2 | Skinfold calipers: Sammons #260961 (\$181.75 each) | \$ 363.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 10 | Mobilization belt: Sammons #081628064 (\$17.95 each) | \$ 179.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 5 | Stopwatches: Sammons #7528 (\$31.30 each) | \$ 156.50 | <input type="checkbox"/> | <input type="checkbox"/> |

Total: \$699.50
per 1 student \$ 19.43

PHT 6245L
HPA-HP
1(0,2)

Therapeutic Exercise II Lab: PR: Therapeutic Exercise I and Lab; CR: Therapeutic Exercise II. Lab course emphasizing the use of the various therapeutic exercise modalities. *Fall*.

Materials & Supply Fee proposed revision: from \$15.00 to \$15.47

Brief description of fee use:

This is a lab course covering therapeutic exercise and evaluation skills for musculoskeletal dysfunctions. The course includes foundational concepts of therapeutic exercise, and theory related to range of motion, resistance, stretching, mobilization and implications for special populations. The utilization of scientific principles, problem-solving, and clinical observation will provide students with a thorough understanding of exercise principles used by physical therapists in the clinical setting. Upon conclusion of this course the student will gain sufficient knowledge of therapeutic exercise to perform a detailed and thorough treatment of physical dysfunction throughout the compendium of care. In order to execute these treatment interventions, a variety of equipment is required.

Each item below is per **36** students

| # units/36 students | | Description | cost/36 students | Denied | |
|----------------------|---|---|------------------|--------------------------|--------------------------|
| | | | | Committee | Provost |
| 1. | 1 | Theraband - Green: Sammons #552215 | \$ 154.55 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 1 | Theraband - Red: Sammons #552214 | \$ 146.45 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 2 | Therapy Putty Medium Soft - Red: Sammons #507199 (\$3.90 each) | \$ 7.80 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | 2 | Therapy Putty Medium - Green: Sammons #5072 (\$3.90 each) | \$ 7.80 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | 2 | Therapy Putty Firm - Blue: Sammons #5073 (\$3.90 each) | \$ 7.80 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | 3 | Theraband Resistance Loops - Green: Sammons #969203 (\$8.05 each) | \$ 24.15 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. | 3 | Theraband Resistance Loops - Blue: Sammons #969204 (\$8.05 each) | \$ 24.15 | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. | 3 | Theraband Resistance Loops - Red: Sammons #969202 (\$8.05 each) | \$ 24.15 | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. | 1 | Theraband - Blue: Sammons #552216 | \$ 160.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$556.85 | | |
| per 1 student | | | \$ 15.47 | | |

PHT 6381C**HPA-HP****2(2,1)**

Cardiopulmonary Physical Therapy: PR: Admission to DPT program. Examinations and interventions for the management of chronic and acute cardiopulmonary problems. Teaching patient strategies for preventing/managing dysfunction. *Fall*.

Materials & Supply Fee proposed revision: from \$15.00 to \$14.98

Brief description of fee use:

This course consists of classroom and laboratory experiences and is provided by respiratory care and physical therapy practitioners. This course provides the student with an opportunity to become familiar with the clinical skills a physical therapy practitioner might utilize in order to manage patients afflicted with atypical cardiopulmonary psychophysiology. In the laboratory setting, students learn to interpret electrocardiograph readings and practice various forms of suction for the cardiopulmonary compromised patient. Practical skills are performed as they would be in the clinical setting.

Each item below is per **36** students

| # units/36 students | | Description | cost/36 students | Denied | |
|----------------------|----|--|------------------|--------------------------|--------------------------|
| | | | | Committee | Provost |
| 1. | 2 | Alcohol pre wipes: Simmons #5683-26(\$6.55 each) | \$ 13.10 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 4 | Disposable gloves: Simmons #5243-02 (\$27.15 each) | \$ 108.60 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 1 | Linen Service - \$82.50 per month x 4 months | \$ 330.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | 50 | Suction practice kits - Pocket Nurse #07-26-4893N (\$1.75) | \$ 87.50 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$539.20 | | |
| per 1 student | | | \$ 14.98 | | |

PHT 6716C**HPA-HP****2(2,1)**

Advanced Orthopedic Physical Therapy: PR: Orthopedic Physical Therapy; CR: Advanced Orthopedic Physical Therapy Lab. Specific rehabilitative protocols regarding particular orthopedic injuries and illnesses are presented. Focus on the previous course work in therapeutic modalities, anatomy, physiology, and therapeutic exercises incorporated. *Spring*.

Materials & Supply Fee proposed revision: from \$25.00 to \$25.88

Brief description of fee use:

This is a lab course covering advanced orthopedic treatment and evaluation skills for musculoskeletal dysfunctions. An introduction will be given of the most common diagnosis treated by physical therapists with related impairments and functional limitations. The student will learn basic examination principles, problem list development and diagnosis. Furthermore the students will learn how to develop goals and determine subsequent intervention. Treatment will include therapeutic exercise, modalities and use of manipulation both thrust and non-thrust. Upon the conclusion of this course, the student should possess the basic skill set in examining and treating common musculoskeletal dysfunction related to the spine.

Each item below is per **36** students

| # units/36 students | | Description | cost/36 students | Denied Committee Provost | |
|----------------------|---|--|------------------|-----------------------------|--------------------------|
| 1. | 2 | Digital Readout Stopwatch - Patterson # 7528 (\$31.30/each) | \$ 62.60 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 1 | Vertebral Column - Patterson # A783-12-7 (\$176.75) | \$ 176.75 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 2 | Baseline Bubble Inclinator 2 pack - Patterson 0815-47-165 (\$153.50) | \$ 307.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | 1 | Safeskin Powder-Free Purple Nitrile Exam Gloves (Medium) Patterson - 0815-06-468 | \$ 32.70 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | 1 | Safeskin Powder Free Purple Nitrile Exam Gloves (Large) Patterson 0815-06-476 | \$ 32.80 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | 1 | Linens (\$20/week for 16 weeks) | \$ 320.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$931.85 | | |
| per 1 student | | | \$ 25.88 | | |

PHT 6720**HPA-HP****1(1,0)**

Wound Care and Professional Issues: PR: Admission to Physical Therapy program. Instruction in specialized care provided by physical therapists and in professional issues relevant to the contemporary practice. *Spring.*

Materials & Supply Fee proposed revision: from \$45.00 to \$44.83

Brief description of fee use:

This is a lab course including therapeutic assessment and intervention in patients with burns and wounds. This course prepares the student to be able to measure, select appropriate dressings, including pressure garments and rehabilitation, multiple methods of debridement and wound dressings.

Each item below is per **36** students

| | | Description | cost/36 students | Denied | |
|----------------------|-----|--|------------------|--------------------------|--------------------------|
| # units/36 students | | | | Committee | Provost |
| 1. | 4 | Sterile gloves # 5550-36 (66.50) | \$ 266.20 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 1 | Kerlix Rolls #7226-0 | \$ 298.95 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 2 | Cloth tape #9891-30 (\$24.20) | \$ 48.40 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | 50 | Sterile debridement kits 0 9652-25 (\$11.10) | \$ 555.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. | 1 | Disposable measuring devises #5008-89 | \$ 28.25 | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. | 3 | Sterile field cloth - 5546-13 (\$29.25) | \$ 87.75 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. | 100 | Disposable tap measure - Pocket Nurse # 02-68-1335N (0.15) | \$ 15.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. | 10 | Sterile gauze - 6666-8M (\$7.60) | \$ 76.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. | 2 | Compression tubular bandage - A938-31 (\$119.15) | \$ 238.30 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$1613.85 | | |
| per 1 student | | | \$ 44.83 | | |

PHT 7134C

HPA-HP

2(2,1)

Physical Therapy Integration II: PR: PHT 7722C - Physical Therapy Integration I. This course focuses on examinations and interventions for the evaluation and treatment of the spine. Various theoretical models explored. Case studies are used for integration of clinical information. *Spring.*

Materials & Supply Fee proposed revision: from \$15.00 to \$14.32

Brief description of fee use:

Medical Lab and lecture course focusing on physical theatre for special populations. Lab component focuses on amputation management including wound care and compression, lymphedema management for the oncology population including measurement, compression and skin care.

Each item below is per **36** students

| | | Description | cost/36 students | Denied | |
|---------------------|---|--|------------------|--------------------------|--------------------------|
| # units/36 students | | | | Committee | Provost |
| 1. | 3 | Disposable Gloves: Simmons #5243-02 (\$27.15 each) | \$ 81.45 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 3 | Tubular bandage - 5597-83 (\$19.15) | \$ 57.45 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 2 | Mollelast - 5597-77-02 (\$16.15) | \$ 32.30 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | 1 | Cellona padding - 0815-37-166 (\$117.15) | \$ 117.15 | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | | | |
|----------------------|---|---|-----------------|--------------------------|--------------------------|
| 5. | 1 | Compression bandage - 5900-02 (\$227.20/box of 20) | \$ 227.20 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$515.55 | | |
| per 1 student | | | \$ 14.32 | | |

PHT 7722C

HPA-HP

2(2,1)

Physical Therapy Integration I: PR: Admission to DPT program. This course emphasizes the differential diagnostic skills required of a physical therapist when deciding if physical therapy care is appropriate. *Fall*.

Materials & Supply Fee proposed revision: from \$15.00 to \$14.52

Brief description of fee use:

This is a lab course introducing the students to complete patient management including but not limited to: evaluation, assessment, developing a plan of care, treatment options, discharge planning, documentation. Students build a dossier of treatments and evaluations for varying musculoskeletal, neuromuscular, injury, co-morbidities and complex patients. Students alternate between being the patient and the treating therapist. The students that are patients simulate the given condition and the PT treat them as they would in a clinical setting. Varying materials are required to simulate and maintain the clinical environment.

Each item below is per **36** students

| # units/36 students | | Description | cost/36 students | Denied | |
|----------------------|---|--|------------------|--------------------------|--------------------------|
| | | | | Committee | Provost |
| 1. | 1 | Linen Service - \$100 per month x 3 months | \$ 300.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | 6 | Disposable gloves: Simmons #5243-02 (\$27.15 each) | \$ 162.90 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. | 2 | Alcohol prep wipes: Simmons #5483-26 (\$6.55 each) | \$ 13.10 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | 4 | Dressing supplies: Simmons #5552-88 (\$11.65 each) | \$ 46.60 | <input type="checkbox"/> | <input type="checkbox"/> |
| Total: | | | \$522.60 | | |
| per 1 student | | | \$ 14.52 | | |