

## Approval Chart for Curriculum Changes

A = Approve      I= Information Item<sup>1</sup>      R= Advise & Respond<sup>2</sup>

Course Number DET 315 or Degree Plan(s) \_\_\_\_\_

State the requested change and reason. A memo may be attached if more space is necessary.

We are requesting the creation of a new course : DET 315 – Game Materials.  
This course is part of a larger revision of the Digital Entertainment Technology degree plan,  
to better utilize the strengths of current faculty and better serve our students.  
This course has been taught once as a special topics course.

A course application, sample syllabus, *etc.* are included.

Circle the number that corresponds to the requested change. Degree plan changes are on the second page.

|     |                                                                                                                   | COUNCIL <sup>3</sup> |                  |       |     |      |      |      |         |           |
|-----|-------------------------------------------------------------------------------------------------------------------|----------------------|------------------|-------|-----|------|------|------|---------|-----------|
|     | Change to a Course                                                                                                | Dept./School         | College Academic | Deans | TEC | UGEC | UUAC | GRAD | Provost | President |
| 1.  | Title (description unchanged)                                                                                     | A                    | A                | A     | I   |      |      |      | I       | I         |
| 2.  | Description (not affecting content)                                                                               | A                    | A                | A     | I   |      |      |      | I       | I         |
| 3.  | Course term(s)                                                                                                    | A                    | I                | A     | I   |      |      |      | I       | I         |
| 4.  | Content (substantive change)                                                                                      | A                    | A                | A     | I   |      |      |      | A       | I         |
| 5.  | Number of hours (lecture, lab, contact)                                                                           | A                    | A                | A     | A   |      |      |      | A       | I         |
| 6.  | Course number within the hundred                                                                                  | A                    | A                | I     | I   |      |      |      | I       | I         |
| 7.  | Course number beyond the hundred                                                                                  | A                    | A                | A     | A   |      |      |      | A       | I         |
| 8.  | Prerequisites                                                                                                     | A                    | A                | A     | I   |      |      |      | I       | I         |
| 9.  | Course fee(s)                                                                                                     | A                    | --               | A     | -   |      |      |      | A       | I         |
| 10. | From U to G <i>or</i> G to U                                                                                      | A                    | A                | A     | A   |      |      |      | A       | I         |
| 11. | Cross list with another department: U or G level                                                                  | A                    | A                | A     | A   |      |      |      | A       | I         |
| 12. | Department of record                                                                                              | A                    | A                | A     | A   |      |      |      | A       | I         |
| 13. | Open or close a course                                                                                            | A                    | A                | A     | A   |      |      |      | A       | I         |
| 14. | New course — See website for application and process.<br>This change includes combining or splitting a course(s). | A                    | A                | A     | A   |      |      |      | A       | I         |

Note: When an academic unit does not have a council, the UGEC and/or UUAC will serve as its academic council, depending on the nature of the issue.

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|     |                                                                                                             | COUNCIL <sup>3</sup> |                  |       |     |      |      |      |         |         |           |                   |
|-----|-------------------------------------------------------------------------------------------------------------|----------------------|------------------|-------|-----|------|------|------|---------|---------|-----------|-------------------|
|     | Change to a Degree Plan                                                                                     | Dept./School         | College Academic | Deans | TEC | UGEC | UUAC | GRAD | Provost | Faculty | President | Board of Trustees |
| 1.  | University Requirements — Change in approved course content <sup>6</sup>                                    | A                    | A                | A     | A   |      |      |      | A       | --      | A         | I                 |
| 2.  | University Requirements — Add or drop a required course from the University Requirements chart <sup>6</sup> | A                    | A                | A     | A   |      |      |      | A       | A       | A         | I                 |
| 3.  | University Requirements — Add or drop a course from a menu within the University Requirements <sup>6</sup>  | A                    | --               | --    | A   |      |      |      | A       | --      | A         | --                |
| 4.  | University Requirements — Change hours within a menu on the University Requirements chart <sup>6</sup>      | A                    | A                | A     | A   |      |      |      | A       | A       | A         | --                |
|     |                                                                                                             |                      |                  |       |     |      |      |      |         |         |           |                   |
| 5.  | Major — Revision of major <sup>4,5</sup>                                                                    | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |
| 6.  | Major — Adopt or change admission requirements                                                              | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |
| 7.  | Major — Add <sup>4,5</sup>                                                                                  | A                    | A                | A     | A   |      |      |      | A       | A       | A         | I                 |
| 8.  | Major – Discontinue (proposed by the department or college)                                                 | A                    | A                | A     | A   |      |      |      | A       | A       | A         | I                 |
| 9.  | Major – Discontinue (proposed by the Provost)                                                               | See below.           |                  |       |     |      |      |      |         |         |           |                   |
|     |                                                                                                             |                      |                  |       |     |      |      |      |         |         |           |                   |
| 10. | GPA — Revise major or cumulative requirement                                                                | A                    | A                | A     | A   |      |      |      | A       | A       | A         | --                |
|     |                                                                                                             |                      |                  |       |     |      |      |      |         |         |           |                   |
| 11. | Minor — Revise course selection                                                                             | A                    | A                | A     | I   |      |      |      | I       | --      | I         | --                |
| 12. | Minor — Add                                                                                                 | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |
| 13. | Minor – Discontinue (proposed by the department or college)                                                 | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |
| 14. | Minor – Discontinue (proposed by the Provost)                                                               | See below.           |                  |       |     |      |      |      |         |         |           |                   |
|     |                                                                                                             |                      |                  |       |     |      |      |      |         |         |           |                   |
| 15. | Degree — Add                                                                                                | A                    | A                | A     | A   |      |      |      | A       | A       | A         | I                 |
| 16. | Degree – Discontinue (proposed by the department or college)                                                | A                    | A                | A     | A   |      |      |      | A       | A       | A         | I                 |
| 17. | Degree – Discontinue (proposed by the Provost)                                                              | See below.           |                  |       |     |      |      |      |         |         |           |                   |
| 18. | Any change to a graduate degree program                                                                     | A                    | A                | A     | A   |      |      |      | A       | --      | A         | --                |

| COUNCIL <sup>3</sup> |                                                                |         |            |      |     |      |          |         |           |                   |
|----------------------|----------------------------------------------------------------|---------|------------|------|-----|------|----------|---------|-----------|-------------------|
|                      | Provost-Proposed Change                                        | Provost | Department | Dean | TEC | UUAC | Graduate | Faculty | President | Board of Trustees |
| 1.                   | Major/Graduate Program – Discontinue (proposed by the Provost) | A       | R          | R    | A   |      |          | A       | A         | I                 |
| 2.                   | Minor – Discontinue (proposed by the Provost)                  | A       | R          | R    | A   |      |          | --      | A         | --                |
| 3.                   | Degree – Discontinue (proposed by the Provost)                 | A       | R          | R    | A   |      |          | A       | A         | I                 |

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| COUNCIL <sup>3</sup> |                                                                                                                              |              |                  |       |      |      |      |         |           |
|----------------------|------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|-------|------|------|------|---------|-----------|
|                      | Change to the Catalog Information                                                                                            | Dept./School | College Academic | Deans | UGEC | UUAC | GRAD | Provost | President |
| 1.                   | General requirements for graduation including course requirements that are common to all majors for all degrees <sup>7</sup> | --           | --               | --    |      | A    |      | A       | A         |
| 2.                   | Admission requirements                                                                                                       | --           | --               | --    |      | A    |      | A       | A         |
| 3.                   | Policies governing academic probation and suspension                                                                         | --           | --               | --    |      | A    |      | A       | A         |
| 4.                   | Requirements for graduating with honors                                                                                      | --           | --               | --    |      | A    |      | A       | A         |

<sup>1</sup> Councils may request additional information about “Information” items. These items are approved as “Consent Agenda.”

<sup>2</sup> The Dean and Department should respond to the Provost’s recommendation to close a program in writing. Advise & Respond (R) requires that the voting body should receive the written responses at least one week prior to the vote.

<sup>3</sup> All courses that meet University Requirements for general education must go through UGEC. Courses or degrees offered only to students seeking teacher certification must go through the Teacher Education Council. All undergraduate changes must go before the UUAC. All graduate degree plan changes must go through the Graduate Council.

<sup>4</sup> A minimum of 30 hours is required for a major. A maximum is specified for each degree (e.g., BA, BS). The university minimum for elective hours is 6, unless the requirements of external accrediting bodies make it impossible.

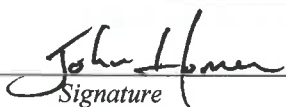
<sup>5</sup> Program or course changes that apply to any major that includes Teacher Certification will be reviewed by the college, the Teacher Education Council (TEC), and then the UUAC.

<sup>6</sup> Courses that satisfy ACU’s University Requirements (General Education) will normally have lower-level numbering, be free of prerequisites and co-requisites, appeal to more than one or two majors, and “not narrowly focus on those skills, techniques, and procedures specific to a particular occupation or profession” (SACS 2.7.3). Departments may request exceptions to the first three criteria.

<sup>7</sup> The UUAC approved the clarification that “general requirements for graduation” means the enumerated items in the “General Requirements for Bachelor’s Degrees” section of the catalog.

Revised 8-26-19

## Curriculum/Catalog Changes Signature Page

|                                                                                                |                           |
|------------------------------------------------------------------------------------------------|---------------------------|
| <b>Department/School Chair(s)</b>                                                              |                           |
| <br>Signature | 11.13.19<br>Approval date |
| _____<br>Signature                                                                             | _____<br>Approval date    |

|                                                                                                |                           |
|------------------------------------------------------------------------------------------------|---------------------------|
| <b>College Academic Council(s)</b>                                                             |                           |
| <br>Signature | 11/13/19<br>Approval date |
| _____<br>Signature                                                                             | _____<br>Approval date    |

|                                                                                                |                           |
|------------------------------------------------------------------------------------------------|---------------------------|
| <b>Dean(s)</b>                                                                                 |                           |
| <br>Signature | 11/15/19<br>Approval date |
| _____<br>Signature                                                                             | _____<br>Approval date    |

|                                  |                        |
|----------------------------------|------------------------|
| <b>Teacher Education Council</b> |                        |
| _____<br>Chair's signature       | _____<br>Approval date |

|                                  |                        |
|----------------------------------|------------------------|
| <b>General Education Council</b> |                        |
| _____<br>Chair's signature       | _____<br>Approval date |

|                                       |                        |
|---------------------------------------|------------------------|
| <b>Undergraduate Academic Council</b> |                        |
| _____<br>Chair's signature            | _____<br>Approval date |

|                            |                        |
|----------------------------|------------------------|
| <b>Graduate Council</b>    |                        |
| _____<br>Chair's signature | _____<br>Approval date |

|                    |                        |
|--------------------|------------------------|
| <b>Provost</b>     |                        |
| _____<br>Signature | _____<br>Approval date |

|                                  |                        |
|----------------------------------|------------------------|
| <b>Faculty</b>                   |                        |
| _____<br>Chair of faculty senate | _____<br>Approval date |

|                    |                        |
|--------------------|------------------------|
| <b>President</b>   |                        |
| _____<br>Signature | _____<br>Approval date |

# Application for a New Course v10.7

Discard instructional pages A-C before submitting application

|                                         |         |
|-----------------------------------------|---------|
| Course ID ( <i>Subject and Number</i> ) | DET 315 |
|-----------------------------------------|---------|

## I. Systems and Catalog Information Complete each item.

|     |                                                                                                         |                                                                                                                                                                                                                                                                                                                                                              |
|-----|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Course Developer                                                                                        | Rich Tanner                                                                                                                                                                                                                                                                                                                                                  |
| 2   | Course Instructor                                                                                       | Rich Tanner                                                                                                                                                                                                                                                                                                                                                  |
| 3   | Course Title                                                                                            | Game Materials                                                                                                                                                                                                                                                                                                                                               |
| 4   | Course Abbreviation for Banner<br>if title is more than 30 characters                                   |                                                                                                                                                                                                                                                                                                                                                              |
| 5   | College                                                                                                 | COBA                                                                                                                                                                                                                                                                                                                                                         |
| 6   | Department or School                                                                                    | SITC                                                                                                                                                                                                                                                                                                                                                         |
| 7   | Number of Credit Hours                                                                                  | 3                                                                                                                                                                                                                                                                                                                                                            |
| 8a. | Number of contact hours – lecture                                                                       | 3                                                                                                                                                                                                                                                                                                                                                            |
| 8b. | Number of contact hours – lab/activity                                                                  |                                                                                                                                                                                                                                                                                                                                                              |
| 9   | Is the course for a fixed or variable<br>number of credit hours?                                        | Fixed                                                                                                                                                                                                                                                                                                                                                        |
| 10  | Explanation for variable credit                                                                         |                                                                                                                                                                                                                                                                                                                                                              |
| 11  | Is the course repeatable for additional<br>credit?                                                      | No                                                                                                                                                                                                                                                                                                                                                           |
| 12  | Maximum total number of credit hours<br>a student can earn for this course                              |                                                                                                                                                                                                                                                                                                                                                              |
| 13  | What type of course is this?<br>(Select one option. Please see<br>Schedule Type definitions on Page C.) | <input type="checkbox"/> Traditional lecture<br><input type="checkbox"/> Traditional lab<br><input checked="" type="checkbox"/> Traditional lecture/lab<br><input type="checkbox"/> Experiential Learning<br><input type="checkbox"/> Seminar<br><input type="checkbox"/> Studio<br><input type="checkbox"/> Thesis<br><input type="checkbox"/> Dissertation |
| 14  | Number of faculty workload hours                                                                        | 3                                                                                                                                                                                                                                                                                                                                                            |

|     |                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15  | Grade Mode                                                                                                                                                 | <input checked="" type="checkbox"/> Standard<br><input type="checkbox"/> Credit/No Credit (undergrad only)                                                                                                                                                                                                                                                                                                      |
| 16  | Maximum Enrollment                                                                                                                                         | 30                                                                                                                                                                                                                                                                                                                                                                                                              |
| 17  | <b>Catalog Description</b><br>(50 words or less)                                                                                                           | Intermediary course focusing on the creation and application of Physically-Based Rendering materials for use in gaming and digital cinematics. Students will explore different PBR and node-based material creation software packages. Students will learn to create procedural materials, and to apply and paint those materials onto 3D models and scenes within various industry standard software packages. |
| 18  | List any prerequisites (course/s, test scores, class standing, major, etc.)                                                                                | DET 305 Game Textures                                                                                                                                                                                                                                                                                                                                                                                           |
| 19  | List any corequisites (these <i>must</i> be taken at the same time; note that a single requirement cannot be both a prerequisite <i>and</i> a corequisite) |                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 20  | If the course is cross-listed, specify the Course ID(s)                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 21  | Does this course require any additional student course fees?                                                                                               | <input checked="" type="checkbox"/> No<br><input type="checkbox"/> Yes<br>If yes, attach a completed "Request to Add or Change Course Fees" form. Describe in section IV-8.                                                                                                                                                                                                                                     |
| 22a | Will the course be offered in <b>fall</b> terms?                                                                                                           | <input checked="" type="checkbox"/> No<br><input type="checkbox"/> Yes<br>If yes: all, even, or odd years?                                                                                                                                                                                                                                                                                                      |
| 22b | Will the course be offered in <b>spring</b> terms?                                                                                                         | <input checked="" type="checkbox"/> No<br><input type="checkbox"/> Yes<br>If yes: all, even, or odd years?                                                                                                                                                                                                                                                                                                      |
| 22c | Will the course be offered in <b>summer</b> terms?                                                                                                         | <input type="checkbox"/> No<br><input checked="" type="checkbox"/> Yes<br>If yes: all, even, or odd years? Even                                                                                                                                                                                                                                                                                                 |
| 23  | First semester this course will be offered under new Course ID. <i>May not be earlier than the coming fall semester.</i>                                   | Summer, 2022                                                                                                                                                                                                                                                                                                                                                                                                    |
| 24  | Is this course required for a degree/s?                                                                                                                    | <input type="checkbox"/> No<br><input checked="" type="checkbox"/> Yes<br>If yes, attach a revised degree plan(s) reflecting the                                                                                                                                                                                                                                                                                |

|    |                                                                                                                                                                                                                             |                                                                                                                            |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                                                                                                                                                             | placement of the new course.                                                                                               |
| 25 | Should the addition of this course be retroactively applied to the degree plan it supports?<br><i>This is rare, and rationale should explain compelling extenuating circumstances.</i>                                      | <u>X</u> No<br><u>  </u> Yes<br>If yes, provide rationale:                                                                 |
| 26 | Has this course been offered as a Special Topics course?<br><i>New courses are not required to be taught as Special Topics courses prior to approval.</i>                                                                   | <u>  </u> No<br><u>X</u> Yes<br>If yes, provide course ID, term, and enrollment:<br>DET 340.01 Game Materials, Spring 2020 |
| 27 | List any courses in which the content overlaps the proposed course.<br>(Course ID and Name)<br><i>Attach a statement from the instructor/dept chair of the existing course justifying the new offering in Section IV-D.</i> |                                                                                                                            |

## II. Curriculum

- A. Explain effect on degree plans. If the addition of the course alters degree requirements, submit a separate Approval Chart for Curriculum Change to update the degree plan.

See revised DET Major documentation

- B. Justify the addition of this course to the current curriculum, explaining the gap it meets.

Physically-Based Rendering (PBR), or better known as game materials is a new area of game design that allows photo-realistic rendering of game objects. Game designers with this skill set are much sought after in the game development field.

## III. Course Design

- A. Audience and Course Goal

1. Describe the intended audience, including prerequisite skills.

This course is intended for upper-level DET majors, who have already built prerequisite skills including foundational exposure to animation and game development and a working ability with scripting languages.

2. State the overarching course goal(s) in performance terms.

Students who successfully complete this course will be able to utilize fundamental techniques of game and media development, to broaden their understanding of games and gameplay and apply these principles to a vast variety of digital media fields.

- B. Student Learning Outcomes and Measurements

|   | Student Learning Outcome                                                                                                      | Measurement |
|---|-------------------------------------------------------------------------------------------------------------------------------|-------------|
| 1 | Create photorealistic PBR materials using node-based procedural editors                                                       | Assignment  |
| 2 | Understand the various map types that PBR materials are broken down into                                                      | Assignment  |
| 3 | Modify existing PBR materials to achieve desired effects                                                                      | Assignment  |
| 4 | Adjust the various map outputs from PBR materials within industry standard software packages to achieve final desired effects | Assignment  |

### 3. Text and Resources

Give the full publication information of the textbook/s and other required resources and outside readings.

For **combined undergraduate/graduate** courses, make two lists:

- A. full publication information; label **Undergraduate**.
- B. full publication information; label **Graduate**.

TBD

## IV. Supporting Documentation

| Required of all applications |                                                                                                                                                                                              |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                            | <b>Approval Chart for Curriculum Changes</b>                                                                                                                                                 |
| 2                            | <b>Syllabus</b> — <b>Attach</b> the syllabus for the course based upon the anticipated first-semester offering.                                                                              |
| 3                            | <b>Instructional Design</b> — The syllabus must be reviewed by the Adams Center. <b>Attach</b> a copy of the Adams Center letter.                                                            |
| 4                            | <b>Library</b> — Submit new course application and syllabus to the Library dean's office. <b>Attach</b> the Library's memo.                                                                  |
| Attach if applicable         |                                                                                                                                                                                              |
| 5                            | <b>Content Overlap</b> — Include one document for each course you listed in Section I-27. <b>Attach</b> statement from instructor/dept chair of existing course justifying the new offering. |
| 6                            | <b>Departmental Resources</b> — List the resources that support the course and are available only through the department, if applicable. <b>Attach</b> the list of the holdings and          |

|   |                                                                                                                                                                                                                                                                                                                                         |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | the location/s.                                                                                                                                                                                                                                                                                                                         |
| 7 | <b>Resources</b> — List resources (other than library or departmental resources) that are needed to support this course (computers, lab equipment, other technology, etc.). <b>Attach</b> a complete list of all items and indicate possible sources or estimated cost of each. List the sources of any needed funds.                   |
| 8 | <b>Expenses</b> — List additional expenses needed to implement this course (full-time or part-time faculty, graduate or lab assistants, student employees, travel, special student costs, room renovation, storage facility, etc.). <b>Attach</b> a complete list of all items, the estimated cost of each and the source of the funds. |
| 9 | <b>Justification</b> — <b>Attach</b> any documents to which you refer in Section II-B.                                                                                                                                                                                                                                                  |

## DET 315.01 - Game Materials



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**ACU SITC Mission Statement:** To educate students in technology-related fields for Christian service and leadership throughout the world.

### ► PROFESSOR

**Professor:** Rich Tanner, Clinical Professor of DET  
**Phone:** 325-603-6745  
**Email:** rich.tanner@acu.edu  
**SketchFab:** Prof Tanner  
**Nintendo:** rwtanner  
**PSN:** proftanner

**Office:** Mabee 232  
**Office Hours:** TR: 11:30am-1pm,  
or by appointment  
**GitHub:** richtanner  
**Steam:** redshirt-rich  
**Xbox Live:** RedshirtRich

### ► COURSE

#### *Course Meeting Time & Location*

Tuesdays & Thursdays, 8:00-9:20 AM - Mabee Business Building 314

#### *Catalog Description*

Intermediary course focusing on the creation and application of Physically-Based Rendering materials for use in gaming and digital cinematics. Students will explore different PBR and node-based material creation software packages. Students will learn to create procedural materials, and to apply and paint those materials onto 3D models and scenes within various industry standard software packages. 3.0 Credit hours / 3.0 Lecture hours.

#### *Prerequisites*

- DET 220: Introduction to 3D Modeling
- DET 305: Game Textures

#### *Learning Outcomes*

Through the homework lessons and in-class exercises and culminating in the completion of the Term Project, students will learn to do the following:

- Create photorealistic PBR materials using node-based procedural editors

- Understand the various map types that PBR materials are broken down into
- Modify existing PBR materials to achieve desired effects
- Adjust the various map outputs from PBR materials within industry standard software packages to achieve final desired effects

In addition to, and in support of, these core competencies, you will also learn to:

- Import and apply raw PBR materials onto 3D models within a software package
- Export the various map outputs that a PBR material decompose into
- Import and apply the various map outputs that result from PBR material creation within industry standard software packages

#### ❖ *Contribution of Course to Overall Business Perspective*

This course continues the topic of developing digital entertainment in the fields of games, graphics, and engine-based cinematics. By offering an overview and practice of the fundamental techniques of game and media development, students will be able to broaden their understanding of games and gameplay and apply these principles to a vast variety of digital media fields.

#### ❖ *Contribution of Course to the Development of Communication Skills*

This course is structured to develop both visual and oral communication skills. Assignments are designed to enhance student's creative understanding of the principles and details of game development. Group projects and student critiques will be organized to simulate professional working practices that are standard in digital media industries.

#### ❖ *Contribution of Course to Christian Service and Leadership*

In this rapidly expanding culture of digital entertainment there are nearly infinite ways to creatively express and share our Christian faith with the world whether professionally or personally. This class is designed to better equip students with tools and skill sets needed to create richer more dynamic media content that will broaden the effective quality of their artistic endeavors. We will also learn how individuals leading Christ-centered lives can effectively use their talents and faith to be shining examples in this secular media industry.

*“You are the light of the world. A town built on a hill cannot be hidden.” Matthew 5:14*

#### *Course Requirements*

You will be required to submit all homework assignments, meaningfully participate in online discussions throughout the semester, attend and participate in all class sessions, and present both a midterm project and a final comprehensive project at the end of the semester.

#### *Course Web Site*

Almost all of the information pertaining to this course is available online through the course web site. You will find class notes, handouts, electronic resources, assignments, and many other materials at this location. Canvas, our course website, keeps a log of your website engagement.

### *Homework Assignments*

Because of the nature of this course, students cannot expect to do well without regular practice. Consequently, homework will be assigned on a regular basis. You are encouraged to complete all assigned work and to seek help outside of class if you need it. My office hours are listed above. Additionally, I can always be reached via email (and text for shorter questions and answers) and will strive to provide a response within a day of your contact. You are also encouraged to seek help from and provide help to your fellow classmates, and to attend tutoring sessions specifically arranged for this course.

### *Term Project*

Your final project will be the culmination of all you have learned over the past semester and should reflect that knowledge. Your final will be graded against the technical skills you have acquired over the semester, as well as be judged according to its artistic merit.

### *Class Participation*

Just like in any professional setting, you must be prepared to participate in group activities and contribute to class discussions. You must be willing to give your honest and educated opinion, while being considerate and conscientious towards others. I am conducting this class as if it is a professional working environment so I expect your full attention. You should be prepared at all times to participate in classroom discussion. Creative thinking, insightful questions, and demonstrated enthusiasm for the material will be reflected in your final grade through the class participation component. Good attendance, while important, is not the sole factor for evaluating class participation. Class participation does not mean class monopolization. Students who are consistently off topic or monopolize the conversation will be counted off on their class participation grade.

## ► *ASSESSMENT*

### *Grading*

Each activity (exam, homework assignment, quiz, etc.) will be graded on the basis of 100%. The grading system for the course is given in the following table.

| Letter Grade | Semester Combined Average |
|--------------|---------------------------|
| A            | 90 or above               |
| B            | 80 - 89.9                 |

|   |           |
|---|-----------|
| C | 70 - 79.9 |
| D | 60 - 69.9 |
| F | Below 60  |

There is no pre-established quota of As, Bs, Cs, etc. for this class. You will receive the grade that you earn, no more and no less. I do not *give* grades. You *earn* them.

The course will have many Projects and Assessments related to the topics. See the chart below for an estimate of the course's work and the points earned from each. This is an estimate of the work, and may be subject to change.

| Assignment type    | Points per assignment | Number of assignments | Total points       |
|--------------------|-----------------------|-----------------------|--------------------|
| Weekly Projects    | 100                   | 12                    | 1200               |
| In-Class Exercises | 25                    | 10                    | 250                |
| Midterm Project    | 200                   | 1                     | 200                |
| Content Quizzes    | 25                    | 8                     | 200                |
| Final Project      | 300                   | 1                     | 300                |
|                    |                       |                       | Total Points: 2150 |

### *Competencies and Measurements*

Projects will be graded on a combination of the following; the amount of effort and time spent, application of learned material, and meeting all criteria of the assignment.

|   | Competency                                                               | Measurement Instrument | Measurement Standard |
|---|--------------------------------------------------------------------------|------------------------|----------------------|
| 1 | Create photorealistic PBR materials using node-based procedural editors  | Assignment             | Rubric               |
| 2 | Understand the various map types that PBR materials are broken down into | Assignment & Quizzes   | Rubric               |
| 3 | Modify existing PBR materials to achieve desired effects                 | Assignment             | Rubric               |

|   |                                                                                                                               |                                 |        |
|---|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------|
| 4 | Adjust the various map outputs from PBR materials within industry standard software packages to achieve final desired effects | Midterm Project & Final Project | Rubric |
|---|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------|

## ► *POLICIES*

### *ADA Compliance Policy*

Abilene Christian University is dedicated to removing barriers and opening access for students with disabilities in compliance with ADA and Section 504 of the Rehabilitation Act. The Alpha Scholars Program facilitates disability accommodations in cooperation with instructors. In order to receive accommodations, you must be registered with Alpha Scholars Program, and you must complete a specific request for each class in which you need accommodations. If you have a documented disability and wish to discuss academic accommodations, please email [alpha@acu.edu](mailto:alpha@acu.edu) call their office directly at 325-674-2667.

### *Academic Integrity*

Violations of the honor code undermine the purpose of education and the function of our academic community. You'll be expected to follow ACU and COBA integrity policies, available at:

- ❖ *ACU*: <http://www.acu.edu/community/offices/administrative/office-of-the-provost/academic-integrity-policy.html>
- ❖ *COBA*: <http://www.acu.edu/community/coba/student-resources/coba-honor-code.html>
- ❖ *Tanner*: I have a Negative Tolerance Policy (rather than the usual Zero Tolerance Policy). This means that I will assign NEGATIVE points for any assignment that a student cheats on. For example, if a student turns in a **100** point assignment that they have copied or otherwise cheated on, they will receive a **-100** points for the assignment.

### *Anti-Harassment Policy*

As a professor, one of my responsibilities is to help create a safe learning environment on our campus. I also have a mandatory reporting responsibility related to my role as a professor. It is my goal that you feel able to share information related to your life experiences in classroom discussions, in your written work, and in our one-on-one meetings. I will seek to keep the information you share private to the greatest extent possible. When I am not able to keep your information confidential, I will only share it with responsible administrators on campus who can provide you with services and resources. I am required to share with the Title IX Coordinator information regarding sexual misconduct or harassment, dating or domestic violence or stalking that you report to me. If you would prefer to share information in a

confidential setting, I encourage you to speak with someone in the [ACU Counseling Center](#). All of your options are available for review by clicking on the link to ACU's [policy](#).

### *Attendance*

In business environments, employees who are often absent from, or tardy to work do not enjoy long-term employment, regular pay increases, or good professional reputations. In this class, you will be learning to solve problems similar to those you will encounter in professional settings, and the consistency with which you attend class reflects your commitment to the training necessary to pursue a career in this field.

*Because the pace of this course is quite rapid, you cannot expect to do well if you frequently miss class.*

You may miss up to two weeks of class (4 class meetings) without penalty. Each additional absence will result in a 3% reduction in your overall course grade. If you have missed three weeks of class (6 class meetings), you may be dropped from the course.

You are late to class if you arrive five minutes after the scheduled start time. Every three late arrivals will be counted as one absence.

You will still be responsible for all notes and information missed as a result of your absence. Your instructor will not distribute course materials more than once, so you should plan to obtain them elsewhere. As noted above, homework assignments will be available via Canvas.

### *Late Assignments/Exams*

As we are learning a professional skill-set, you will need to perform in a professional manner. This class will involve progressive assignments, where each assignment may build upon the previous lessons. Becoming late on even one assignment could severely impact the quality of subsequent work. Late work may be accepted, depending upon circumstances, but any late submissions will be penalized at a rate of 3% per day late.

### *Dropping*

To drop a course you must complete required paperwork with your advisor. You cannot reuse class hours in block tuition if you drop after the first week of the semester.

### *Classroom Management*

In order to maintain decorum and to optimize the learning environment for all members of the class, certain classroom management policies must be adhered to:

- If you sleep in class/lab you will be asked to leave and you will be counted absent.
- If you walk out of class/lab without returning, you will be counted absent (obviously, exceptions will be made if you become ill or have made a prior arrangement with the instructor).

- Disruptive behavior will not be tolerated. This includes playing games, streaming videos, writing emails, engaging in instant messaging, or similar activities on the computer terminal during lab periods. If you disrupt the class, you will be asked to leave and will be counted absent.

### *Communications*

To facilitate consistency in communications of course requirements, assignments, and general information, your instructor will regularly communicate with you via email using your ACU email address. You are encouraged to **check your ACU email everyday** for messages from your instructor. In addition, announcements and course materials will be posted to the course web site (*Canvas*) on a regular basis, and you are also encouraged to check that resource often.

### *Disabilities*

If you have a documented disability and want to request academic accommodations, contact the ACU Student Disability Services Office at Alpha Academic Services. To receive accommodations you must be registered with Disability Services and complete a specific request for individual classes. For an appointment, contact the Director of Disability Services at (325) 674-2667.

### ► *INSTRUCTIONAL MATERIALS*

The following texts and classroom resources will be used in the course:

#### **Required:**

McDermott, Wes. *The PBR Guide: A Handbook for Physically Based Rendering*. 3rd edition. Algorithmic, 2018. ISBN: 2490071009

Additional instruction is available for the software used in this course through Lynda.com. Use the quick link (<http://acu.edu/lynda>), which automatically makes sure you are logged in to MyACU before redirecting to the site.

#### **Additional Content:**

May include book chapters, articles, or videos relevant to the course. To be assigned throughout the semester.

### ► *CALENDAR*

The ACU academic calendar can be found at:

<http://www.acu.edu/community/offices/administrative/wildcat-central/academic-advising/academic-calendar.html>

This class will meet at all scheduled times unless otherwise noted.

Homework will be assigned at least weekly.

*Important Dates*

- Tuesday, January 14th: First day of class
- Thursday, February 20th: Midterm Project Due
- March 9th - 13th: Spring Break - No Classes
- Thursday, April 30th: Last day of class
- Tuesday, May 5th: Final Exam (Project Presentations) @ 10-11:45 am

Professor Rich Tanner  
MBB232  
325-603-6745  
Rich.tanner@acu.edu

October 18, 2019

Re: Review of DET315

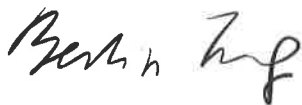
Dear Professor Tanner,

Thank you for submitting DET 315: Game Materials, and I have reviewed it based on the ACU Syllabus Guidelines and found it to be meeting all requirements except a few changes I would suggest:

1. Please consider adding the outline of topics, ACU mission, and the College mission that are missing from the syllabus.
2. Please add the required Title IX and ADA policies. You can find some standardized text for university policies in this template: <https://tinyurl.com/acusyllabus>
3. The competencies and measurements section does not have enough detail. Usually, professors list the competencies in terms of the learning outcomes, which you have at an earlier part of the syllabus, but make sure you list the measurements for each competency instead of using an overall statement for all competencies. Again, check the syllabus template above for an example.
4. You have a great description of what you expect in class participation, but I wonder if you will assign a portion of the final grade for that.
5. Though not required, adding a calendar for the students will be helpful for both the professor and the students to keep up with the assignments.

If you choose to make some changes based on the comments above, please submit the revised version to the council for review. There is no need to bring back the syllabus for further review. However, please note that this letter is used during the review process as a reference. It is not meant to be final approval. Others in the review process may have recommendations too.

If you have any questions, please feel free to let me know. Please also let the instructional design team know if we can be of any help in the design and facilitation of this course.



Director of Instructional Design, Adams Center

# ABILENE CHRISTIAN UNIVERSITY

## LIBRARY

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### M E M O R A N D U M

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**DATE:** November 15, 2019  
**TO:** Dr. Brian Burton  
**FROM:** Mark McCallon, Associate Dean for Library Services  
**RE:** Course Application for DET 315 – Game Materials

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After reviewing the course proposal, the library is able to support the proposed course. Thank you for allowing us to review the course proposal.