**COLLEGE OF ARTS & SCIENCES - WORLDWIDE**

**DEPARTMENT OF STEM Education**

# FACULTY PLANNING DOCUMENT

# TENURE-TRACK FACULTY

**Name:** Darryl Chamberlain

**Position:** Assistant Professor

**Academic Year:** 2022-2023

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# PLANNING INFORMATION

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***Teaching*** 70%

Contracted for 24 credit hours (schedule subject to change based on university needs)

With 3 credit hours released for tenure-track research responsibilities.

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| --- | --- | --- | --- |
| **Faculty Member** |  | **Courses/Releases** | **Notes/Preferences** |
| Chamberlain | 1 | MATH 106 | Aug 2022 |
| Chamberlain | 2 | MATH 111 | Oct 2022 (EV) |
| Chamberlain | 3 | MATH 111 | Jan 2023 |
| Chamberlain | 4 | MATH 112 | Mar 2023 |
| Chamberlain | 5 | MATH 111 | Mar 2023 |
| Chamberlain | 6 | Course Release | Start-up release. |
| Chamberlain | 7 | Course Release | Start-up funds replacement. |
| Chamberlain | 8 | Research Responsibility |  |
| Note: 5 courses releases during tenure track negotiated w/Dean to be used at faculty member’s discretion. Additional 3 releases to replace start-up funds to be used AY21-24.  2+2 course releases used; 3+1 course releases remaining | | | |

**Peer Observation**

Course: MATH 111 March 2023

Reviewer: Zackery Reed

**Professional Development related to Teaching Effectiveness:**

* MAA Project NExT Fellow participation:
  + Travel to MAA MathFest Conference
  + Travel to Joint Mathematics Meeting Conference.
  + Monthly online Teaching Effectiveness meetings
* Travel to Research on Undergraduate Mathematics Education Conference.

**Research** 20%

* **(PI) ERAU Seed Grant Follow-Up** *[possible paths based on future collaborator(s)]*
  + **Idea 1:** Automating Targeted and Actionable Feedback in OER Homework Platform  
    *SEED grant results lay foundation for categorizing common errors in College Algebra. Use these to develop first wave of automated, actionable feedback in an OER Homework Platform.*
  + **Idea 2:** Autonomous Discovery-Based Activities in [course]  
    *SEED grant results show traditional quiz/exam structure emphasizes procedures over conceptions. Autonomous discovery-based activities can provide conception-building activities and lay the foundation for conceptual assessments.*
  + **Idea 3:** Developing Function Understanding through Programming  
    *SEED grant results show traditional quiz/exam structure emphasizes procedures over conceptions. Programming can allow students to generalize functions as mathematical concepts that will be productive for future content. Autonomous feedback can be provided given programmatic nature of assignments.*
* **(PI) Unfunded – Knowledge Construction in Asynchronous Discussions**
  + Conference Proceeding (Anticipated Feb 2023)
  + Journal Article (Projected Submission - May 2023)
* **(Co-PI) NSF Grant - Improving Undergraduate Student Persistence, Performance, and Perspectives in Online STEM Courses via a Community of Inquiry and Decreasing Students' Cognitive Load**
  + Year 2 of NSF project. Primary responsibilities: manage research assistants, data processing, data analysis, manuscript writing (data analysis, results, discussion).
  + Journal Article (Published – September 2022)
  + Journal Article (Projected Submission – May 2023)
* **(Co-PI) Internally Funded (@ UF) - Examining and addressing the content knowledge development needs of Florida’s aspiring and newly qualified mathematics teachers**
  + Journal Article (First submission – August 2022)

**Service**10%

**Department:**

* **Course Monitor** – MATH 111 and STAT 412
* **Member** – MST Department Community of Practice

**College:**

* **Member** – Faculty Council
* **Grant Reviewer** – Faculty SEED Grant

**Professional:**

* **Chair** - MAA Subommittee on Technology in Mathematics Education (STME)
* **Grant Reviewer** – NSF IUSE Proposals
* **Member** – RUME Nominating Committee
* **Member** – RUME Program Committee
* **Journal Reviewer**
  + International Journal of Research in Mathematics Education
  + Journal of Assessment in Higher Education
  + Journal of Mathematical Behavior
  + Problems, Resources, and Issues in Mathematics Undergraduate Studies

**Note: The above plan is subject to change based upon circumstances unknown at the time of its development.**

# Department Chair

# Date:

**Faculty Member** Darryl Chamberlain Jr.

**Date:** 9/1/22