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VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

College of Architecture, Arts, and Design

School of Design

Pathways Minor in Design + Technology + Creative Expression

For students entering under UG Catalog 2023-2024

The Pathways Minor in Design + Technology + Creative Expression requires completion of 18 credit hours. This minor prepares students to work in a creative and collaborative high tech environment with outcomes across disciplines and in support of understanding, exploring, and materilizing a self directed capstone. At least 6 credits should be taken at the 3000-level or above. Students should select electives that are in disciplines not associated with student major. A minimum minor GPA of 2.0 in all courses taken to fulfill the minor is required. The interdisciplinary coursework is as follows:

REQUIRED COURSES – 9 credits IDS 1114 3 Play to Make (Pathways 6a, 6d, 11) MUS 3064 **Digital Sound Manipulation** 3 **AAD 4234** Capstone Collaboration: Cross-disciplinary Teamwork 3 Capstone Component (Pre: IDS 1114) **Total Credits for Section: ELECTIVES – 9 credits minimum** Choose 3 credits of the following from Understand (Empathize/Define) 3 **CINE 2054** Introduction to Cinema (Pathways 2, 10) **COMM 2084** Media and Society (Pathways 10) **CS 3724** Introduction to Human-Computer Interaction HIST/SOC/STS 2604 Introduction to Data in Social Context (Pathways 2, 5f, 10, 11) **IDS 2114** History of Industrial Design (Pathways 6a) **IDS 2124** History of Industrial Designers (Pathways 6d) **ITDS 1114 Design Appreciation** (Pathways 6a, 6d, 10, 11) MUS 3314 Linux Laptop Orchestra (Pathways 6a, 10) STS 1504 Intro to Science, Technology and Society (Pathways 2, 3, 11) **STS 3284** Technology and Disability (Pathways 2, 6d, 10)

Choose 3 credits of the following from Explore (Ideate/Prototype)

3 _____

AHRM 2014 Design for Consumers

(Pathways 6d, 11) (Pre: AHRM 1014)

CS 1014 Introduction to Computational Thinking

(Pathways 5f, 10)

CS 1064 Introduction to Programming Python

(Pathways 5f, 10)

ENGE 2094 CREATE! Ideation for Innovation

(Pathways 6d, 11)

ENGL 2744 Intro to Creative Writing

(Pathways 1a, 6a, 6d, 11)

(Pre: ENGL 1106 or ENGL 1204H or COMM 1016)

HUM 2204 The Creative Process

(Pathways 6a, 11)

TA 2204 Creative Dance

(Pathways 6a, 6d, 11)

IDS 3224 Topics in Design Competencies (variable credit courses)

Choose 3 credits of the following from Materialize (Test/Implement)

3 _____

CS 3744 Introduction to GUI Programming

(Pre: 2114, (MATH 1114 or MATH 1114H or MATH 2114 or MATH 2114H), (MATH 1224 or MATH 1224H or MATH 2204

or MATH 2204H))

COMM 3274 Social Dimensions of Games, Simulations, and Virtual

Environments

IDS 2044 Human Factors (Pre: ARCH 1016)

MKTG 3104 Marketing Management (Pre: Jr. Standing)

MUS 4014H Topics in Advanced Electroacoustic Research

(Pre: MUS 3066, MUS 3164)

SOC 2104 Quantitative Approaches to Community Research

(Pathways 5f, 10)

(Cross-listed with HD 2104)

TA 2404 Intro to Applied Collaborative Techniques

(Pathways 1a, 6a, 6d, 11)

Total Credits for Section:

Pathways Minor in Design + Technology + Creative Expression Total Credits:

18

9

Pathways Core Concepts:

1f =Foundational Discourse

1a = Advanced/Applied Discourse

2 = Critical Thinking in the Humanities

3 = Reasoning in the Social Sciences

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4 = Reasoning in the Natural Sciences

5f = Foundational Quantitative and Computational Thinking

5a = Advanced/Applied Quantitative and Computational Thinking

6a, 6d, or 6a,6d (either) = Critique and Practice in Design and the Arts

7 = Critical Analysis of Identity and Equity in the United States

Pathways Integrative Concepts:

10 = Ethical Reasoning

11 = Intercultural and Global Awareness