

**TO:** The Faculty of the College of Engineering

**FROM:** The Faculty of the School of Engineering Education

**RE:** Update to Theatre Engineering plan of study

The Faculty of the School of Engineering Education has approved the attached revision to the Theatre Engineering plan of study, streamlining the plan to eliminate individual tracts. This action is now submitted to the Engineering Faculty with a recommendation for approval.

**Summary of Proposed Changes:**

This EFD will:

- 1) Revise two distinct tracts of Theatre Engineering into a single Theatre Engineering plan of study.
- 2) Reposition the IDE30100 professional development course within the plan of study to semester 3 (instead of 5) to rebalance semester credits.
- 3) Add THTR 36800 (1 cr) to semester 6 of the plan of study in place of 1 cr. Area elective in semester 8.

**Proposed Theatre Engineering plan of study:**

See attachment A.

**Current Theatre Engineering plan of study:**

See attachment B.

**Effective Date:**

Effective for all new beginning Theatre Engineering students entering MDE program Fall 2023.

**Reasons:**

When the Theatre Engineering plan of study was created it was envisioned that students would require two distinct tracts: 1) structural scenery and 2) mechanical/electrical scenery to achieve their educational objectives. Since inception, the available course offerings have been refined in such a way that *both tracts* previously conceived can be achieved by replacing a 1 credit "area elective" with THTR 36800 1 credit.

This change allows for a single plan of study in Theatre Engineering to fulfill student educational objectives, while also streamlining the plans of study offered and maintained. This change has *no impact* to plan of study total credits.



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Professor of Engineering Education

Link to Theatre Engineering plan of study (and options)

[:https://catalog.purdue.edu/preview\\_program.php?catoid=15&poid=23599&hl=%22theatre+engineering%22&returnto=search](https://catalog.purdue.edu/preview_program.php?catoid=15&poid=23599&hl=%22theatre+engineering%22&returnto=search)

**Attachment A**  
**Proposed**  
**Theatre Engineering Plan of Study**

**MDE Concentration Guideline – *Theatre Engineering***

Semester 1			Semester 2		
CHM 11500	GENERAL CHEMISTRY	4	ENGR 13200	TRANS IDEAS TO INNOV II	2
ENGR 13100	TRANS IDEAS TO INNOV I	2	GEN ED	GEN ED (Found Outcome OC) <sup>2</sup>	3
GEN ED	GEN ED (Found Outcome WC) <sup>1</sup>	3	MA 16600	PL ANLY GEO CALC II	4
MA 16500	PL ANAL GEO CALC I	4	PHYS 17200	MODERN MECHANICS	4
			SCI SEL	FYE SCIENCE SELECTIVE	3
	Total	13		Total	16
Semester 3			Semester 4		
IDE 30100	PROF PREP IN IDE SEMINAR	1	ECE 20001	ELEC ENGR FUND I	3
MA 26100	MULTIVARIATE CALCULUS	4	ECE 20007	ELEC ENGR FUND I LAB <sup>6</sup>	1
ME 20000	THERMODYNAMICS <sup>3</sup>	3	MA 26200	LIN ALG AND DIF EQU <sup>7</sup>	4
ME 27000	BASIC MECHANICS I <sup>4</sup>	3	ME 27400	BASIC MECHANICS II <sup>8</sup>	3
PHYS 24100	ELECTRICITY & OPTICS <sup>5</sup>	3	THTR 36800	THEATRE PRODUCTION II	2
THTR 15001	INTRO TO DRAFTING	1	THTR 55000	ADV SCENERY TECH <sup>9</sup>	3
THTR 15002	INTRO TO SCNRY CONST TOOLS & TECH	1			
THTR 15003	INTRO TO RIGGING FOR THTR	1			
	Total	17		Total	16
Semester 5			Semester 6		
CE 34000	HYDRAULICS <sup>10</sup>	3	ENGR ELECTIVE	ENGINEERING ELECTIVE <sup>12</sup>	3
CE 34300	HYDRAULICS LAB <sup>6</sup>	1	ENGR SLECTIVE	ENGINEERING SELECTIVE (design) <sup>14</sup>	3
CGT 16300	GRAPH COM & SPAT ANLY <sup>11</sup>	2	IDE 36000	MDE STATISTICS <sup>15</sup>	3
ENGR ELECTIVE	ENGINEERING ELECTIVE <sup>12</sup>	3	THTR 20100	THTR APPRN (Found Outcome H) <sup>16</sup>	3
NUCL 27300	MECHANICS OF MATERIALS <sup>13</sup>	3	THTR 59700	PRODUCTION&DESIGN SEM <sup>17,18</sup>	3
THTR 55000	ADV SCENERY TECH <sup>9</sup>	3	THTR 36800	THEATRE PRODUCTION II	1
	Total	15		Total	16
Semester 7			Semester 8		
ENGR ELECTIVE	ENGINEERING ELECTIVE <sup>12</sup>	3	ENGR ELECTIVE	ENGINEERING ELECTIVE <sup>12</sup>	3
GEN ED	GEN ED (Found Outcome STS) <sup>19</sup>	3	GEN ED	GEN ED (Found Outcome BSS) <sup>21</sup>	3
GEN ED	GEN ED <sup>18</sup>	3	GEN ED	GEN ED (300 level or non intro) <sup>18</sup>	3
IDE 48300	MDE ENGR ANALYSIS/DECISION <sup>20</sup>	1	IDE 48500	MDE ENGR DESIGN PROJ <sup>22</sup>	3
IDE 48400	MDE DESIGN METHODOLOGY	1			
IDE 48700	MDE SENIOR DEVELOPMENT	1			
THTR 59700	PROD & DESIGN SEM <sup>17,21</sup>	3			
	Total	15		Total	12

**Attachment B**  
**Existing**  
**Theatre Engineering Plans of Study**

**MDE Plan of Study – Theatre Engineering (structural scenery option)**

Semester 1			Semester 2		
CHM 115	General Chemistry	4	COM 114	FUND OF SPCH - GEN ED	3
ENGL 108/106	1 <sup>st</sup> YR CMP-GEN ED	3/4	SCI SEL	FYE SCIENCE SELECTIVE	3/4
ENGR 131	TRANS IDEAS TO INNOV I	2	ENGR 132	TRANS IDEAS TO INNOV II	2
MA 165	PL ANAL GEO CALC I	4	MA 166	PL ANAL GEO CALC II	4
			PHYS 172	MODERN MECHANICS	4
	Total	13/14		Total	16/17
Semester 3			Semester 4		
MA 261	MULTIVARIATE CALCULUS	4	CGT 163	GRAPH COM & SPAT ANLY	2
ME 200	THERMODYNAMICS	3	ECE 201	LIN CIRCUIT ANALYSIS I	3
ME 270	BASIC MECHANICS I <sup>1</sup>	3	ECE 207	ELEC MEAS TECH LAB <sup>3</sup>	1
PHYS 241	ELECTRICITY & OPTICS <sup>2</sup>	3	MA 262	LIN ALG AND DIF EQU <sup>4</sup>	4
THTR 15001	INTRO TO DRAFTING	1	ME 274	BASIC MECHANICS I <sup>5</sup>	3
THTR 15002	INTRO TO SCNRY CONST TOOLS & TECH	1	THTR 57001	STATICS & STRUC FOR THTR <sup>6</sup>	3
THTR 15003	INTRO TO RIGGING FOR THTR	1			
	Total	16		Total	16
Semester 5			Semester 6		
CE 340	HYDRAULICS <sup>7</sup>	3	ENGR	ENGR CLASS (elective) <sup>8</sup>	3
CE 343	HYDRAULICS LAB <sup>3</sup>	1	ENGR	ENGR CLASS (design elective) <sup>11</sup>	3
ENGR	ENGR CLASS (elective) <sup>8</sup>	3	IDE 360	MDE STATISTICS <sup>12</sup>	3
IDE 301	PROF PREP IN IDE SEMINAR	1	THTR 201	THTR APPRN (Found Outcome H) <sup>13</sup>	3
NUCL 273	MECHANICS OF MATERIALS <sup>9</sup>	3	THTR 597	PRODUCTION & DESIGN SEM <sup>14,15</sup>	3
THTR 550	ADVANCED SCENERY TECH <sup>10</sup>	3			
	Total	14		Total	15
Semester 7			Semester 8		
ENGR	ENGR CLASS (elective) <sup>8</sup>	3	AREA	AREA CLASS <sup>18</sup>	2
GEN ED	GEN ED (Found Outcome STS) <sup>16</sup>	3	ENGR	ENGR CLASS (elective) <sup>8</sup>	3
GEN ED	GEN ED <sup>15</sup>	3	GEN ED	GEN ED (Found Outcome BSS) <sup>19</sup>	3
IDE 483	MDE ECONOMICS <sup>17</sup>	1	GEN ED	GEN ED (300 level or non intro) <sup>14</sup>	3
IDE 484	MDE DESIGN METHODOLOGY	1	IDE 485	MDE ENGR DESIGN PROJ <sup>20</sup>	3
IDE 487	MDE SR. PROF. SEMINAR	1			
THTR 597	PROD & DESIGN SEM <sup>14</sup>	3			
	Total	15		Total	14

## MDE Concentration Guideline – *Theatre Engineering (mechanical/electrical scenery option)*

Semester 1			Semester 2		
CHM 115	GENERAL CHEMISTRY	4	ENGR 132	TRANS IDEAS TO INNOV II	2
ENGR 131	TRANS IDEAS TO INNOV I	2	GEN ED	GEN ED (Found Outcome OC) <sup>2</sup>	3
GEN ED	GEN ED (Found Outcome WC) <sup>1</sup>	3	MA 166	PL ANAL GEO CALC II	4
MA 165	PL ANAL GEO CALC I	4	PHYS 172	MODERN MECHANICS	4
			SCI SEL	FYE SCIENCE SELECTIVE	3
	Total	13		Total	16
Semester 3			Semester 4		
MA 261	MULTIVARIATE CALCULUS	4	ECE 201	LIN CIRCUIT ANALYSIS I	3
ME 200	THERMODYNAMICS <sup>3</sup>	3	ECE 207	ELEC MEAS TECH LAB <sup>6</sup>	1
ME 270	BASIC MECHANICS I <sup>4</sup>	3	MA 262	LIN ALG AND DIF EQU <sup>7</sup>	4
PHYS 241	ELECTRICITY & OPTICS <sup>5</sup>	3	ME 274	BASIC MECHANICS II <sup>8</sup>	3
THTR 15001	INTRO TO DRAFTING	1	THTR 368	THEATRE PRODUCTION II	2
THTR 15002	INTRO TO SCNRY CONST TOOLS & TECH	1	THTR 550	ADV SCENERY TECH <sup>9</sup>	3
THTR 15003	INTRO TO RIGGING FOR THTR	1			
	Total	16		Total	16
Semester 5			Semester 6		
CE 340	HYDRAULICS <sup>10</sup>	3	ENGR	ENGR CLASS (elective) <sup>12</sup>	3
CE 343	HYDRAULICS LAB <sup>6</sup>	1	ENGR	ENGR CLASS (design elective) <sup>14</sup>	3
CGT 163	GRAPH COM & SPAT ANLY <sup>11</sup>	2	IDE 360	MDE STATISTICS <sup>15</sup>	3
ENGR	ENGR CLASS (elective) <sup>12</sup>	3	THTR 201	THTR APPRN (Found Outcome H) <sup>16</sup>	3
IDE 301	PROF PREP IN IDE SEMINAR	1	THTR 597	PRODUCTION&DESIGN SEM <sup>17,18</sup>	3
NUCL 273	MECHANICS OF MATERIALS <sup>13</sup>	3			
THTR 550	ADV SCENERY TECH <sup>9</sup>	3			
	Total	16		Total	15
Semester 7			Semester 8		
ENGR	ENGR CLASS (elective) <sup>12</sup>	3	AREA	AREA CLASS <sup>21</sup>	1
GEN ED	GEN ED (Found Outcome STS) <sup>19</sup>	3	ENGR	ENGR CLASS (elective) <sup>12</sup>	3
GEN ED	GEN ED <sup>18</sup>	3	GEN ED	GEN ED (Found Outcome BSS) <sup>22</sup>	3
IDE 483	MDE ENGR ANALYSIS/DECISION <sup>20</sup>	1	GEN ED	GEN ED (300 level or non intro) <sup>18</sup>	3
IDE 484	MDE DESIGN METHODOLOGY	1	IDE 485	MDE ENGR DESIGN PROJ <sup>23</sup>	3
IDE 487	MDE SENIOR DEVELOPMENT	1			
THTR 597	PROD & DESIGN SEM <sup>17,21</sup>	3			
	Total	15		Total	13