

**SERVICES AGREEMENT
BETWEEN
THE UNIVERSITY OF TEXAS AT AUSTIN
AND
_____ INDEPENDENT SCHOOL DISTRICT**

This Agreement is entered into by and between The University of Texas at Austin ("University" or "UT"), on behalf of the Cockrell School of Engineering's UTeachEngineering ("UTeachEngineering"), and _____ Independent School District ("Organization").

RECITALS

A. Organization is an independent school district in the State of Texas, of which the following school(s) (collectively called the "School Sites") is/are a part:

_____ High School, [address]

B. UTeachEngineering, using funding from the National Science Foundation, has created an innovative and comprehensive year-long high school engineering design curriculum titled *Engineer Your World*; and

C. Organization desires to implement the *Engineer Your World* course at each of the School Sites.

Therefore, the parties agree as follows:

I. TERM OF AGREEMENT

The term of this Agreement is effective as of the later of **April 2, 2017** or date fully executed by both parties ("Effective Date") and shall terminate on **August 31, 2020** unless extended by written amendment upon mutual agreement of the parties and signed by an authorized representative of each party.

II. RESPONSIBILITIES OF UTEACHENGINEERING

1. Background. UTeachEngineering was established in 2008 with support from the National Science Foundation to address an emerging need for well-prepared high school engineering teachers. Building on the successes of the nationally recognized UTeach Natural Sciences program, UTeachEngineering offers a high-quality, low-cost high school engineering course, *Engineer Your World*, and supporting professional development opportunities for teachers.

UTeachEngineering program goals are:

- To attract and retain more students from diverse backgrounds in K-12 science, technology, engineering and math (STEM) education career paths;
- To prepare current secondary science and math teachers to become effective teachers of high school engineering courses;
- To develop, pilot, and refine an exceptional year-long high school engineering course, titled *Engineer Your World*, that can be deployed at low cost in a variety of high school settings;
- To build partnerships that enable school districts to offer high-quality engineering courses;

- To carry out cutting-edge research that contributes to an understanding of how people learn engineering; and
- To develop a viable national model for preparing and supporting secondary engineering educators.

Engineer Your World is an innovative, student-centered course that engages learners in authentic engineering experiences and inspires them to embrace an engineer's habits of mind. Collaborative, student-directed projects build resilient problem-solving skills and empower students to think like engineers. Our curriculum combines rigorous core concepts with cross-discipline perspectives to deliver a rich sequence of socially relevant, student-directed challenges. The project-based curriculum readily engages students of diverse backgrounds, abilities, and interests, and in a wide range of educational environments.

2. Copyright License to Materials. Attached here is the University's "Copyright License Agreement" ("CLA") applicable to the Materials to be used for the "Engineer Your World" online learning management system. Subject to Organization (as the "Licensee" under the CLA) signing the CLA and this Services Agreement, Organization shall be entitled to use the Materials (as defined in the CLA) only in accordance with the terms of the CLA.

3. Furnish Copies of Materials and Supplies. UTeachEngineering will provide to the Organization copies of the *Engineer Your World* teaching Materials (e.g. unit plans, lesson plans, assessments, as generally described in the CLA attached hereto in Attachment A) provided in an electronic format, plus appropriate equipment and supplies ("Supplies" as generally described in the Supplies List attached hereto in Attachment B), for use exclusively at the School Sites. Enough copies of the Materials will be provided to support the number of sections of *Engineer Your World* mutually agreed upon in writing by UTeachEngineering and Organization. Supplies will be provided as outlined in Section III, Item 5 below.

4. Professional Development Training. UTeachEngineering will provide to the Organization (i) a two-week summer professional development training program for the newly identified teacher(s), plus paid housing and a travel allowance (up to \$800), with travel details as outlined in the teacher participation agreement; and (ii) at least two years of induction support facilitated by veteran *Engineer Your World* teachers and/or project staff, including such elements as online resources, facilitated video conferences, and one-on-one debriefs.

5. Dual Enrollment Opportunity. UTeachEngineering offers students taking *Engineer Your World* the opportunity to also earn college-level credit by "dual enrolling" in a course at UT Austin or another participating institution; 2016 participating institutions were UT Permian Basin, UT Rio Grande Valley, and UT San Antonio. Information about this opportunity will be distributed to students at the beginning of the academic year. Participation in this opportunity is voluntary.

III. RESPONSIBILITIES OF ORGANIZATION

Organization agrees to implement the *Engineer Your World* course according to the program requirements established by UTeachEngineering, which shall include, but not be limited to, the following:

1. Identification of an appropriate teacher for the course.

Organization will select the teacher(s) who will teach *Engineer Your World* at each School Site.

UTeachEngineering reserves the right to accept or reject any candidate. Teachers selected to teach the *Engineer Your World* course should have as a minimum a Bachelor's Degree and be in compliance with applicable state teacher licensure or certification requirements.

Teachers are required to successfully complete the fee-based *Engineer Your World* course professional development institute during the summer immediately preceding the year in which they teach *Engineer Your World*. Fees are outlined below in Section IV.

2. Notification process for replacement teacher.

In the event the *Engineer Your World*-trained teacher does not teach the course for the full term of the Agreement, Organization will identify a replacement teacher and submit teacher credentials to UTeachEngineering. The terms of Section III, Item 1 and Section IV will apply. If Organization fails to identify a suitable replacement teacher for the remainder of the contract period, then Organization will cease to offer the course and will reimburse UTeachEngineering as described in Section IV.

3. Notification and responsibilities in case of teacher resignation prior to or during implementation.

In the event the *Engineer Your World*-trained teacher resigns from Organization before course instruction has begun for a given academic year and a replacement teacher cannot be trained by *Engineer Your World* prior to that academic year, Organization will notify UTeachEngineering immediately and will not offer the course that academic year. The terms of Section III, Item 2 will apply.

In the event the *Engineer Your World*-trained teacher resigns from Organization while the course is underway and Organization desires to continue implementation of the course, Organization will notify UTeachEngineering immediately. Organization will identify a replacement teacher and submit teacher credentials to UTeachEngineering within ten (10) business days. UTeachEngineering may accept or reject the replacement teacher and may terminate this Agreement at its discretion. If the teacher is approved by UTeachEngineering, the teacher may continue teaching the course, with instructional support from UTeachEngineering (provided for a fee of \$500), and will attend the fee-based professional development institute during the following summer. If the replacement teacher is not approved by UTeachEngineering, Organization shall cease teaching the course for the remainder of the academic year. The terms of Section III, Item 2 will apply.

4. Notification of intended class sections and student enrollment.

For the 2017-2018 academic year, Organization will provide the following information in writing to UTeachEngineering according to the timeline outlined below, for each School Site offering *Engineer Your World*:

- a. No later than two months prior to an approved teacher's professional development session:
 - i. Intended number of sections of *Engineer Your World* to be offered on that teacher's School Site during that school year; and
 - ii. Estimate of student enrollment per section.
- b. No later than the first day of an approved teacher's professional development session:
 - i. Updated number of sections of *Engineer Your World* to be offered on that teacher's School Site during that school year; and
 - ii. Updated estimate of student enrollment per section.
- c. No later than the 10th class day:
 - i. Final number of sections of *Engineer Your World* to be offered on that teacher's School Site during that school year; and
 - ii. Final count of student enrollment per section.

For each subsequent academic year during the term of this Services Agreement, Organization will provide in writing to UTeachEngineering the intended number of sections of *Engineer Your World* to be offered on each campus, along with an estimate of student enrollment per section, no later than three months prior to the first day of school. Organization will provide the final number of sections of *Engineer Your World* to be offered on each School Site, along with a final count of student enrollment per section, no later than the 10th class day of school.

5. Supplies.

For the 2017-2018 academic year, course Supplies will be provided at no cost to the Organization for one class section of twenty-four (24) students. Organization agrees that Supplies provided by UTeachEngineering will be used solely for the *Engineer Your World* course for only the School Sites and for no other purpose. Replacement Supplies will not be provided unless the product is defective or is damaged during shipment. In subsequent years, Organization will be responsible for replacing consumable Supplies (at an approximate cost of \$20 per student), and for purchasing the additional Supplies required to accommodate additional sections of the course. A Supplies list is provided in Attachment B.

6. Safety.

Organization is solely responsible for the safe and proper implementation of the *Engineer Your World* course at its schools. Organization agrees that any facility used to teach the *Engineer Your World* course shall be adequately equipped to operate the equipment safely and properly and that such facility shall comply with applicable standards and/or customary practices relating to safety and reasonable use.

7. Research and Evaluation.

Organization agrees to execute a research agreement with UTeachEngineering allowing and assuring UTeachEngineering researchers, evaluators and staff access to student products such as surveys, tests, and course artifacts. If Organization has a suitable and standard template for research and evaluation agreements, UTeachEngineering will utilize this template; otherwise, the UTeachEngineering template will be used. Organization will ensure that participating teacher(s) mail completed parent/student consent forms to UTeachEngineering on or before the 15th class day.

8. Failure to Implement.

If Organization fails (on a School Site-by-School Site basis) to offer the *Engineer Your World* course during the academic year immediately following the execution of this Agreement, and/or for the full three years of this Agreement, or if Organization fails (on a School Site-by-School Site basis) to faithfully implement the course as written during the term of this Agreement, then this Agreement may immediately terminate (on a School Site-by-School Site basis), at the option of UTeachEngineering, and Organization will owe payment as described in Section IV of this Agreement. Section III, Item 2 outlines terms and conditions in the event a teacher implementing *Engineer Your World* leaves Organization.

9. Communication and Materials Guidelines.

During the term of this Agreement, Organization shall use the appropriate logos and other identifying materials on all *Engineer Your World* materials and communications with faculty, students, officials and community constituents. Any distribution of the *Engineer Your World* materials outside of the classroom at each of the School Sites is strictly prohibited.

Organization acknowledges that The University of Texas at Austin on behalf of UTeachEngineering retains all rights and title to its marks, curricula, Materials and all intellectual property relating in any way to UTeachEngineering. Subject to the provisions and requirements of this Agreement and the CLA, UTeachEngineering grants Organization a non-exclusive license to use the *Engineer Your World* Materials as stated in the CLA. In consideration of this license, Organization grants back to UTeachEngineering a non-exclusive, royalty-free license to any improvements or variations created involving the *Engineer Your World* materials, and you agree to promptly forward to UTeachEngineering copies of such improvements or variations.

10. Additional Requirements.

Organization agrees to support the program administratively by providing UTeachEngineering with a district representative who will serve as point of contact.

Organization agrees to schedule *Engineer Your World* as a stand-alone course. It should not be scheduled with another course taught by the same teacher in the same class period.

No UTeachEngineering funds will be expended, nor will teachers be allowed to attend the professional development institute, until this Agreement, the CLA, and the research and evaluation agreement are fully executed.

IV. PAYMENT TERMS AND BILLING

Fees for items outlined in Section II are as follows:

Fee Per Campus:	Year 1	Year 2	Year 3
Professional Development Institute (PD) fee (per teacher)	N/A*	N/A*	N/A*
Ongoing PD and Induction Support fee (per teacher)	\$1,500*	\$1,500*	N/A*
Academic Year Curriculum Licensing fee (see Attachment A, the CLA)	\$2,000	\$2,000	\$2,000
Total	\$3,500	\$3,500	\$2,000
Financial Contribution from UTeachEngineering	**\$7,600	N/A	N/A

**Assuming the same teacher(s) continue teaching the course. If a new teacher needs to be trained, the fee to attend the professional development institute is \$2,000 and the Induction Support fee is \$1,500 per year for the teacher's first two years teaching the course.*

***The financial contribution can only be guaranteed by UTeachEngineering for the 2017-18 academic year and includes: teacher transportation costs (up to \$800); teacher lodging (billed directly to the University – ~\$800); and ~\$4000 of equipment and supplies provided to the campus. Additionally, the \$2000 PD fee will be waived for Summer 2017.*

If applicable, the Professional Development Institute fee will be due at the time of registration. Payment must be received in full prior to the teacher arriving onsite at training. Cancellation requests must be received in writing two weeks prior to the PD start date in order for a full refund to be provided. After this time, no refund is available.

An invoice for the Curriculum Licensing fee and Ongoing PD and Induction Support fee will be provided by UTeachEngineering on September 1 and will be payable by September 30 of each year.

In the event the Organization fails to implement the *Engineer Your World* course for the full term of this Agreement, Organization shall reimburse UTeachEngineering for any teacher housing and travel costs reimbursed (up to \$1,600) plus \$4,000 for provided materials and supplies. If multiple sections of the course were offered, Organization will reimburse UTeachEngineering \$1,000 per additional section for provided materials and supplies.

Invoices shall be sent to the attention of:

Theresa Dobbs, Sr. Program Coordinator
UTeachEngineering
Cockrell School of Engineering
The University of Texas at Austin
10100 Burnet Rd, Bldg #133 MC R7100
Austin, TX 78758
Phone (512) 471-3017 Fax (512) 471-1720
tdobbs@mail.utexas.edu

Payment shall be sent to the attention of:

Theresa Dobbs, Sr. Program Coordinator
UTeachEngineering
Cockrell School of Engineering
The University of Texas at Austin
10100 Burnet Rd, Bldg #133 MC R7100
Austin, TX 78758
Phone (512) 471-3017 Fax (512) 471-1720
tdobbs@mail.utexas.edu

Checks should be made payable to The University of Texas at Austin.

V. RELATIONSHIP OF THE PARTIES

For all purposes of this Agreement and notwithstanding any provision of this Agreement to the contrary, Organization is an independent contractor and is not a state employee, partner, joint venturer, or agent of University. Organization will not bind nor attempt to bind University to any agreement or contract. As an independent contractor, Organization is solely responsible for all taxes, withholdings, and other statutory or contractual obligations of any sort, including but not limited to workers' compensation insurance for its own employees.

VI. TERMINATION

- a. If either party is in default of performance of any obligation under this Agreement, the party that is not in default may give written notice of the default to the other party and if the party notified fails to correct the default within thirty (30) days or within such period fails to satisfy the party giving notice that the default does not exist, the party giving notice may terminate this Agreement upon expiration of the thirty (30) day period.

- b. University may terminate this Agreement at any time in the event of the filing by or against Organization of a petition for relief in bankruptcy, or for receivership, or in the event that Organization becomes insolvent.
- c. The termination of this Agreement shall not affect any right or remedy that has accrued to either party at the time of termination.
- d. Either party may terminate this Agreement, without cause, upon sixty (60) days written notice to the other party.
- e. Upon termination of the Agreement, all curricular Materials shall cease to be used, and at the request of UTeachEngineering, all curricular Materials, including any reproductions thereof, shall be returned to UTeachEngineering within fifteen (15) days after the effective date of termination.

VII. REPRESENTATIONS AND WARRANTIES

- a. Organization represents and warrants that neither the execution and delivery of this Agreement by Organization nor the performance of its duties and obligations under this Agreement will (a) result in the violation of any provision of its organizational documents; (b) result in the violation of any provision of any agreement by which Organization is bound; or (c) to the best of Organization's knowledge and belief, conflict with any order or decree of any court or other body or authority having jurisdiction.
- b. Organization warrants, represents, covenants, and agrees that it is duly organized, validly existing and in good standing under the laws of the state of its incorporation or organization and is duly authorized and in good standing to conduct business in the State of Texas, that it has all necessary power and has received all necessary approvals to execute and deliver the Agreement, and the individual executing the Agreement on behalf of Organization has been duly authorized to act for and bind Organization.

VIII. USE OF UNIVERSITY NAME

University reserves the right to review and approve any promotional/advertising materials related to the Materials or this Agreement. All promotional and marketing materials involving the use of University, UT, or UTeachEngineering's name, logos, and/or symbols must have the prior approval of the Director of the Office of Trademark Licensing at The University of Texas at Austin, P.O. Box 7399, Austin, Texas, 78713 or 512-475-7923.

IX. ETHICS AND STANDARDS OF CONDUCT

The University will conduct and perform the work under this Agreement in compliance with Texas Government Code §572.051 Standards of Conduct; §556.004 Political Activities by Certain Public Entities and Individuals; §556.005 Employment of Lobbyist; §556.0055 Restrictions on Lobbying Expenditures; and §556.006 Legislative Lobbying.

IN WITNESS WHEREOF, University and Organization have executed and delivered this Agreement.

_____ Independent School District

The University of Texas at Austin

By: _____

By: _____

Name: _____

Name: Linda Shaunessy

Title: _____

Title: Business Contracts Administrator

Date: _____

Date: _____

Sample

Attachment A Copyright License Agreement

This Agreement is entered into as of the later of April 2, 2017 or date fully executed by both parties (the "Effective Date") by and between The University of Texas at Austin ("University") on behalf of the Board of Regents of the University of Texas System ("System"), an agency of the State of Texas, with offices at 3925 Braker Lane, Suite 1.9a, Austin, TX 78759 and _____ Independent School District ("Licensee").

RECITALS

- A. University, the parent organization of UTeach*Engineering*, owns or has obtained rights to the copyright, title, and all other related rights in and to the Material (as defined below).
- B. Licensee desires to obtain the rights to copy, distribute and otherwise perform the Material in order to provide classroom instruction to high school students enrolled in UTeach*Engineering's* *Engineer Your World*.

NOW, THEREFORE, in consideration of the promises, conditions, covenants and warranties herein contained, the parties agree as follows:

1. Definitions

"Material" shall be defined as the following:

All materials contained in the *Engineer Your World* online learning management system. These include, but are not limited to, the following: unit overviews, unit plans, lesson plans, power points, presentations, teaching notes, student handouts, reference documents, video files, images and assessments. Portions of the Material will be in electronic form and/or paper form as determined by University.

"School Sites" means each of the particular schools listed below:

_____ High School, [Address]

"Term" shall mean the three years from September 1, 2017 through August 31, 2020.

2. Rights Granted

- 2.1 University hereby grants to Licensee a non-exclusive, non-sublicenseable, non transferrable, license to use the Material for the School Sites for providing the "Engineer Your World" high school engineering curriculum course, only for academic, non-commercial purposes, for the Term of the Agreement.
- 2.2 Licensee shall use the Material only for providing at the School Sites the "Engineer Your World" educational course; and Licensee shall not otherwise use the Material or furnish the Material to any third party.

2.3 For avoidance of doubt, Licensee has no rights to, and Licensee shall not: (i) Sell transfer, distribute or assign to any third party any right to use the Material, (ii) make reproductions or copies of the Material, (iii) modify the Material, (iv) incorporate the Material into another material, course, publication or work or (v) authorize any third party to use the Material other than is specified in Section 2.1.

2.4 Upon the request by University, Licensee shall furnish to University access to Licensee's data, surveys, tests and course artifacts related to Licensee's use of the Material, as may be reasonably needed by University to help University and/or the National Science Foundation evaluate the utilization of the Material and the UTeachEngineering program.

3. Intellectual Property Matters

3.1 Licensee shall not remove, alter, or obscure any title, trademark, restricted rights, confidentiality or copyright notices of University, System, or their suppliers, that are incorporated in the Material, and shall reproduce all such notices on any copies thereof.

3.2 Original materials created and owned by The Board of Regents, the University, or System shall remain the property of those parties and changes made by Licensee to the Material will not affect such ownership.

3.3 University shall remain as the owner of the Material and all related copyrights, trademarks, logos and intellectual property rights.

4. Payments

4.1 In consideration of the license rights granted in Article 2 above, Licensee shall pay University the amount of \$6000 (\$2000/year). An invoice will be provided by UTeachEngineering on September 1 and will be payable by September 30 of each year.

4.2 All amounts payable hereunder by Licensee shall be payable in United States funds without deductions for taxes, assessments, fees, or charges of any kind. Please reference your Agreement number . Checks shall be made payable to The University of Texas at Austin, and shall be forwarded to the UTeachEngineering, The University of Texas at Austin, 10100 Burnet Rd., Bldg. 133, MC R7100, Austin, Texas 78758, Attn: Theresa Dobbs. RE: CN: _____.

4.3 Licensee shall be responsible for paying all (i) sales, use, excise, value-added, or other tax or governmental charges imposed on the licensing or use of the Material hereunder, (ii) freight, insurance and installation charges, and (iii) import or export of duties or like charges.

4.4 If any payment is not made when due as specified in Section 4.1, the delinquent sum shall bear a late fee charge at the rate of 1% per month or the maximum allowed by law, whichever is less. Payments shall be considered late if not received by University by the due date.

5. University's Rights and Obligations; Warranty Disclaimer; Limitation of Liability; Indemnification

5.1 University warrants and represents that it owns all rights, title and interest in the Material or has otherwise obtained rights in the Material that give University the right to grant the rights in this Agreement.

5.2 University reserves unto itself all rights not specifically granted herein.

5.3 WARRANTY DISCLAIMER. The Material is provided "as is." University makes no warranties or representations relating to the Material, express or implied, statutory or otherwise, and expressly excludes the warranty of non-infringement of third-party rights, fitness for a particular purpose or merchantability. University does not warrant that the Material will satisfy Licensee's requirements, that the Material is without defect or error or that operation of the Materials will be uninterrupted.

5.4 LIMITATION OF LIABILITY. University shall not be liable for any indirect, incidental, special, or consequential damages, or damages for loss of profits, revenue, data, or use, incurred by Licensee or any third party, whether in an action in contract or tort (including negligence), or any other legal theory, even if University has been advised of the possibility of such damages.

5.5 INDEMNIFICATION. Licensee shall indemnify and hold harmless System, University, their Regents, officers, agents and employees from and against any claims, demands, or causes of action whatsoever relating to this Agreement, including without limitation those arising on account of Licensee's use of the Material or otherwise caused by, or arising out of, or resulting from, the exercise or practice of the license granted hereunder by Licensee, its permitted sublicensees, if any, its subsidiaries or their officers, employees, agents or representatives.

6. Term and Termination

6.1 The "Term" of this Agreement shall be for the period as defined in Section 1 above. However, this Agreement shall terminate automatically upon any termination of the Services Agreement to which this Agreement is attached.

6.2 This Agreement shall be subject to termination upon notice at the election of a party, where there has been a default in the due observance or performance of any material, covenant, condition or agreement herein by the other party, which default is not cured within thirty days after written notice is given to the defaulting party.

6.3 When this Agreement terminates, Licensee shall immediately cease using the Material.

6.4 Termination or expiration of this Agreement shall not affect any right, obligation or liability (i) that has already accrued against a party, or (ii) that is covered by Sections 3, 5.3, 5.4, 5.5, 6.3 and 9.

7. Assignment

This Agreement may not be assigned without prior written agreement from University.

8. Notice

All notices, authorizations, and requests in connection with this Agreement shall be deemed given (i) five days after being deposited in the U.S. mail, postage prepaid, certified or registered, return receipt requested; or (ii) one day after being sent by overnight courier, charges prepaid, with a confirming fax; and addressed as set forth below or to such other address as the party to receive the notice or request so designates by written notice to the other. Notices shall be sent:

In the case of University to:

The University of Texas at Austin
Office of Technology Commercialization
3925 West Braker Lane
Suite 1.9A
Austin, Texas 78759
Attn: Contracts Management
Re: CN: _____

And:

The University of Texas at Austin
UTeachEngineering
10100 Burnet Rd., Bldg. 133, MC R7100
Austin, Texas 78758
Attn: Theresa Dobbs
Re: CN: _____

In the case of Licensee to:

_____ Independent School District
[address]

9. General Provisions

9.1 Successors/Assigns

This Agreement is binding upon and shall inure to the benefit of the respective successors and/or permitted assigns of the parties hereto.

9.2 Use of Name

One party may not make use of the other party's name without prior written consent.

9.3 Governing Law; Court of Jurisdiction

The validity, interpretation, construction and performance of this Agreement shall be governed by the laws of the State of Texas. The Texas state courts of Travis County, Texas (or, if there is exclusive federal jurisdiction, the United States District Court for the Western District of Texas) shall have exclusive jurisdiction and venue over any dispute arising out of this Agreement, and Licensee hereby consents to the jurisdiction of such courts.

9.4 Severability

If any provision of this Agreement shall be held by a court of competent jurisdiction to be illegal, invalid, or unenforceable, the remaining provisions shall remain in full force and effect.

9.5 State Agencies; No Waiver of Sovereign Immunity

The parties acknowledge that the University and System are agencies of the State of Texas and under the Constitution and laws of the State of Texas possess certain rights and privileges and only have such authority as is granted to them under the Constitution and laws of the State of Texas. Nothing in this Agreement is intended to be, nor will it be construed to be, a waiver of the sovereign immunity of the State of Texas.

9.6 Relationship of the Parties

For all purposes of this Agreement, Licensee is an independent contractor and is not a state employee, partner, joint venture, or agent of University. Licensee will not bind nor attempt to bind University to any agreement or contract. As an independent contractor, Licensee is solely responsible for all taxes, withholdings, and other statutory or contractual obligations of any sort, including but not limited to workers' compensation insurance, for its own employees.

9.7 Entire Agreement; Modifications

This Agreement (together with the Services Agreement) sets forth the entire agreement between the parties with respect to the subject matter hereof, and may not be modified or amended except by written agreement executed by the parties hereto.

IN WITNESS WHEREOF, the parties have caused this Copyright License Agreement to be executed the day and year set forth above.

The University of Texas at Austin on
Behalf of the Board of Regents of the
University of Texas System

_____ Independent School District

Daniel W. Sharp, J.D.

Associate Vice President for Research
and Director
The University of Texas at Austin
Office of Technology Commercialization

Title: _____

Date: _____

Date: _____

Attachment B Supplies List

PLEASE NOTE ITEMS AND QUANTITIES ARE SUBJECT TO CHANGE

This attachment lists all supplies required to support the implementation of *Engineer Your World*. The contents are arranged according to the eight units of the course, namely:

1. [Overview and Norms: Introduction to Engineering](#)
2. [Designing for Customers: Customer Needs](#)
3. [Discovering Design: Pinhole Camera](#)
4. [Understanding Data: Designing Coffee](#)
5. [Designing with Data: Safer Buildings](#)
6. [Reverse Engineering: Product Redesign](#)
7. [Programming: Electronic Music](#)
8. [Systems Engineering: Aerial Imaging](#)

Each list is divided into three categories:

- Equipment and supplies **provided** by UTeachEngineering
- Equipment and supplies **required but not supplied** by UTeachEngineering
- Supplies that are not required, but would be **helpful** to teach a particular unit

Items marked with an “N” will be provided to schools implementing *Engineer Your World* for the first time in 2017-2018.

Computer hardware requirements are provided for both PC and Mac campuses (see end of document).

Required and optional software lists are provided for both PC and Mac campuses (see end of document).

Explanation of Quantities:

- The quantities listed **assume a single class size of 24.**
- UTeachEngineering will **provide** supplies for a single class size of 24 students, and is based on recommended group sizes.
- Please scale **required but not provided** supplies to determine correct quantities.
- Quantities given for consumables (adhesives, cardboard, balsa wood) are recommended quantities; please replenish supplies as necessary.
- If you teach multiple sections, some of the supplies sent may be **shared among all your sections, but** please scale supplies as needed to determine correct quantities for multiple sections.

Unit 1 – Overview and Norms: Introduction to Engineering

Equipment and Supplies provided by UTeachEngineering			
Item	Used in Multiple Units	Quantity	Example Source
Box cutter / Utility knife N	<input checked="" type="checkbox"/>	6	Office Max
Hot glue gun, GR10 N	<input checked="" type="checkbox"/>	12	Amazon
Hot glue, 4", dual temp, 24 pack N	<input checked="" type="checkbox"/>	2	Amazon
Cutting mat, 12"x18", reversible N	<input checked="" type="checkbox"/>	8	Cutting mats.net
Equipment and Supplies required but not supplied by UTeachEngineering			
Item	Used in Multiple Units	Quantity	Example Source
Pens, pack of 12	<input checked="" type="checkbox"/>	2	Office Depot
Engineering Notebooks	<input checked="" type="checkbox"/>	24	Office Supply
Markers, pack of multicolored	<input checked="" type="checkbox"/>	3	Office Supply
Cardboard (corrugated), 3" x 6" rectangle		3	Household Supply
Cardboard (corrugated), 4" diameter round wheels		6	Household Supply
Cardboard (corrugated), 2" diameter round wheels		6	Household Supply
Rubber bands, pack of various sizes		1	Office Max
Meter sticks / rulers	<input checked="" type="checkbox"/>	8	School Supply
Tape, duct	<input checked="" type="checkbox"/>	2	Office Depot
Pencils, pack of 12	<input checked="" type="checkbox"/>	1	Amazon
Paper	<input checked="" type="checkbox"/>	1	School Supply
Scissors	<input checked="" type="checkbox"/>	3	School Supply
Tape, clear, pack of 6	<input checked="" type="checkbox"/>	1	Office Depot
Glue, bottle	<input checked="" type="checkbox"/>	3	School Supply
Goggles	<input checked="" type="checkbox"/>	24	Grainger
Paper clips, box of >50		1	School Supply
Stapler and staples		3	School Supply
Supplies that are not required, but would be helpful to teach this unit			
Item	Used in Multiple Units	Quantity	Example Source
Self-stick easel pad, 25"x30", 30 sheets	<input checked="" type="checkbox"/>	1	Office Depot
Tri-fold, or other barrier to block students' view		3	Blick
Work or gardening gloves	<input checked="" type="checkbox"/>	3	Home Depot
Sticky notes, pack of 12 pads, 3"x3"	<input checked="" type="checkbox"/>	2	Office Depot
Pliers	<input checked="" type="checkbox"/>	4	Amazon

Unit 2 – Designing for Customers: Customer Needs

Equipment and Supplies provided by UTeachEngineering			
Item	Used in Multiple Units	Quantity	Example Source
Hand-powered flashlight N	<input checked="" type="checkbox"/>	24	Amazon
Equipment and Supplies required but not supplied by UTeachEngineering			
Item	Used in Multiple Units	Quantity	Example Source
Sticky notes, pack of 12 pads, 3"x3"	<input checked="" type="checkbox"/>	1	Office Depot
Computers / laptops	<input checked="" type="checkbox"/>	6 minimum, 12 recommended	Technology
Supplies that are not required, but would be helpful to teach this unit			
Item	Used in Multiple Units	Quantity	Example Source
Universally designed product, e.g. measuring cup		5	Oxo

Unit 3 – Discovering design: Pinhole Camera

Equipment and Supplies provided by UTeachEngineering			
Item	Used in Multiple Units	Quantity	Example Source
Ilford 8x10 Multigrade IV RC Deluxe, Satin, Pearl, or Glossy (25 Sheets) N		1	Precision Camera
Darkroom Safe Light (fixture and bulb) N		1	Freestyle Photo
Timer (does not emit light), requires AAA battery N	<input checked="" type="checkbox"/>	1	Webstaurant Store
Developing Trays - set of 3 N		1	Freestyle Photo
Tongs (set of 3) N		1	Freestyle Photo
Ilford Multigrade Developer N		1	Precision Camera
Ilford Rapid Fixer N		1	Precision Camera
Solution Storage Containers, 64 oz (1/2 gal) N		2	Precision Camera
Oven mitts – pairs N		6	Webstaurant Store
Hot glue gun, GR10 N	<input checked="" type="checkbox"/>	12	Amazon
Hot glue, 4", dual temp, 24 pack N	<input checked="" type="checkbox"/>	2	Amazon
Aluminum foil roll, 25' N		3	Party City
Box cutter / Utility knife N	<input checked="" type="checkbox"/>	6	Office Max
Cutting mat, 12"x18", reversible N	<input checked="" type="checkbox"/>	6	Cutting mats.net
X-acto knife, No 2 knife w/ No. 2 blade N	<input checked="" type="checkbox"/>	6	Office Max
600 grit sandpaper - 5 pack N		1	Home Depot
Hand Sewing Needles pack: non blunt points N		1	Amazon
Equipment and Supplies required but not supplied by UTeachEngineering			
Item	Used in Multiple Units	Quantity	Example Source

Camera Obscura supplies (black plastic, tape, cardboard)		1	Household Supply
Goggles	<input checked="" type="checkbox"/>	24	Grainger
Containers/boxes for light leak testing		12	Household Supply
Markers, pack of multicolored	<input checked="" type="checkbox"/>	2	Office Supply
Black Electrical Tape - 3 roll pack		2	Office Max
Tape, clear, pack of 6	<input checked="" type="checkbox"/>	1	Office Depot
Tape, duct	<input checked="" type="checkbox"/>	2	Office Depot
Tape, clear packing	<input checked="" type="checkbox"/>	1	Office Depot
Aluminum cans, empty, clean		3	Household Supply
Calipers or micrometers		1	Harbor Freight
Computers/laptops	<input checked="" type="checkbox"/>	1 minimum, 12 recommended	Technology

Supplies that are not required, but would be **helpful** to teach this unit

Item	Used in Multiple Units	Quantity	Example Source
Cardboard and string demonstration		1	Teacher-created
Sticky notes, pack of 12 pads, 3"x3"	<input checked="" type="checkbox"/>	1	Office Depot
Self-stick easel pad, 25"x30", 30 sheets	<input checked="" type="checkbox"/>	1	Office Depot
Multipurpose foil tape		1	Home Depot
Flatbed scanner and printer		1	Technology

Unit 4 – Understanding Data: Designing Coffee

Equipment and Supplies **provided** by UTeachEngineering

Item	Used in Multiple Units	Quantity	Example Source
Digital AquaPro Water Quality Electrical Conductivity Tester N		4	Amazon
Timer (does not emit light), requires AAA battery N	<input checked="" type="checkbox"/>	1	Webstaurant Store

Equipment and Supplies **required but not supplied** by UTeachEngineering

Item	Used in Multiple Units	Quantity	Example Source
Coffee beans, whole, >0.5 lb		1	Coffee for Less
Coffee beans, ground, >0.5 lb		1	Coffee for Less
Mass scale, 0-1000g	<input checked="" type="checkbox"/>	1	Amazon
Water, 5L+, tap or distilled		1	Household Supply
Coffee filters, pack		1	Office Depot
String, pack of twist ties, or tape		1	Amazon
Water heating device - microwave or burner		1	Target
Heat-resistant container that can be covered >400mL, or pint-sized		8	Mansion Supplies
Computers/laptops	<input checked="" type="checkbox"/>	8	Technology

Supplies that are not required, but would be helpful to teach this unit			
Item	Used in Multiple Units	Quantity	Example Source
Thermometer or temperature probe		1	School Supply

Unit 5 – Designing with Data: Safer Buildings

Equipment and Supplies provided by UTeachEngineering			
Item	Used in Multiple Units	Quantity	Example Source
Hot glue gun, GR10 N	<input checked="" type="checkbox"/>	8	Amazon
Hot glue, 4", dual temp, 24 pack N	<input checked="" type="checkbox"/>	1	Amazon
Cutting mat, 12"x18", reversible N	<input checked="" type="checkbox"/>	4	Cutting mats.net
NI myDAQ N	<input checked="" type="checkbox"/>	4	Studica
NI myQuake N		4	Studica
C-clamps, 3"x2" OR 3" x 4.5" (opening x width) N		8	Tools Plus
1/16" balsa sheet, 3" wide, 3' long - 20 pieces N		1	Pitsco
1/16" sq balsa - 60 pieces (MID6022) N		1	Horizon Hobby
1/8" sq balsa - 50 pieces (Product ID: W52734) N		3	Pitsco
1/4" sq balsa - 25 pieces (Product ID: W52733) N		4	Pitsco
Box cutter / Utility knife N	<input checked="" type="checkbox"/>	4	Office Max
X-acto knife, No 2 knife w/ No. 2 blade N	<input checked="" type="checkbox"/>	4	Office Max
Foam core board- white - 10 sheets of 20x30" N	<input checked="" type="checkbox"/>	1	Office Max
Carpenter square, 8"x12", steel N		1	Home Depot
Level, 9" N		1	Home Depot
Binder clips - Medium, 1-1/4" - box of 144 N	<input checked="" type="checkbox"/>	2	Office Max
Binder clips - small, 3/4" - box of 36 N		1	Office Max
Washers - plain steel, for 0.5" screw, 9/16" ID, 1-3/8" OD, 5/64" or 0.8" thick -packs of 130 N		3	McMaster

Equipment and Supplies required but not supplied by UTeachEngineering			
Item	Used in Multiple Units	Quantity	Example Source
Goggles	<input checked="" type="checkbox"/>	24	Grainger
Meter sticks / rulers	<input checked="" type="checkbox"/>	8	School Supply
Computers/laptop	<input checked="" type="checkbox"/>	8 minimum	Technology
Markers, pack of multicolored	<input checked="" type="checkbox"/>	2	Office Supply
Mass scale, 0-1000g	<input checked="" type="checkbox"/>	1	Amazon

Supplies that not are not required, but would be helpful to teach Engineer Your World			
Item	Used in Multiple Units	Quantity	Example Source
Round beam, 1/4", 3-6' long, maple/basswood/balsa		1	Woodcraft
Weight for demo, e.g. apple, tennis ball		1	Household Supply
Drill w/ 1/4" bit		1	Home Depot

Scrap wood, 2x4, 5" long		1	Household Supply
Sticky notes, pack of 12 pads, 3"x3"	<input checked="" type="checkbox"/>	1	Office Depot
Self-stick easel pad, 25"x30", 30 sheets	<input checked="" type="checkbox"/>	1	Office Depot

Unit 6 – Reverse Engineering: Product Redesign

Equipment and Supplies provided by UTeachEngineering			
Item	Used in Multiple Units	Quantity	Example Source
Hand-powered flashlight N *Received quantities in Unit 2	<input checked="" type="checkbox"/>	24	Amazon
NI myDAQ N	<input checked="" type="checkbox"/>	4	Studica
Breadboard, 400 tie-in points N	<input checked="" type="checkbox"/>	6	Sparkfun
Jumpers, M-F (100-pack) N		1	Sparkfun
Analog protoboard adapter N		6	Vernier
Light sensor LS-BTA N		2	Vernier
Dual-Range force sensor DFS-BTA N		2	Vernier
Sound level meter N		2	Sears
Screwdriver set, #0 to #1 Phillips and flat head N		3	Home Depot
Equipment and Supplies required but not supplied by UTeachEngineering			
Item	Used in Multiple Units	Quantity	Example Source
Goggles	<input checked="" type="checkbox"/>	24	Grainger
Computers/laptop	<input checked="" type="checkbox"/>	6 minimum	Technology
Self-stick easel pad, 25"x30", 30 sheets	<input checked="" type="checkbox"/>	1	Office Depot
Paper for drawing exploded view	<input checked="" type="checkbox"/>	1	School Supply
Markers, pack of multicolored	<input checked="" type="checkbox"/>	2	Office Supply
Pliers	<input checked="" type="checkbox"/>	4	Amazon
Meter sticks / rulers	<input checked="" type="checkbox"/>	8	School Supply
Tape, masking or electrical	<input checked="" type="checkbox"/>	2	Office Max
Supplies that are not required, but would be helpful to teach Engineer Your World			
Item	Used in Multiple Units	Quantity	Example Source
Sticky notes, pack of 12 pads, 3"x3"	<input checked="" type="checkbox"/>	1	Office Depot

Unit 7 – Programming: Electronic Music

Equipment and Supplies provided by UTeachEngineering			
Item	Used in Multiple Units	Quantity	Example Source
Pushbutton N	<input checked="" type="checkbox"/>	9	Digikey
Trimpot 10K with Knob N		9	Sparkfun
Arduino Uno N	<input checked="" type="checkbox"/>	9	Sparkfun

USB cable N	<input checked="" type="checkbox"/>	9	Digikey
Breadboard, 400 tie-in points N	<input checked="" type="checkbox"/>	9	Sparkfun
Wire, spool, 22AWG, solid, black, 25' N	<input checked="" type="checkbox"/>	1	Sparkfun
Wire Strippers - 5" N	<input checked="" type="checkbox"/>	4	Harbor Freight
Piezo buzzer N		9	Adafruit
Resistor, 1Kohm N		9	Sparkfun
Pliers N	<input checked="" type="checkbox"/>	4	Amazon
Equipment and Supplies required but not supplied by UTeachEngineering			
Item	Used in Multiple Units	Quantity	Example Source
Computers/laptop	<input checked="" type="checkbox"/>	9 minimum	Technology

Unit 8 – Systems Engineering: Aerial Imaging

Equipment and Supplies provided by UTeachEngineering			
Item	Used in Multiple Units	Quantity	Example Source
Small digital camera N		6	Amazon
Micro-SD card with SD adapter N		4	Amazon
Piezo buzzer N		12	Adafruit
Arduino Uno N (includes qty for Bluetooth)	<input checked="" type="checkbox"/>	10	Sparkfun
USB cable N (includes qty for Bluetooth)	<input checked="" type="checkbox"/>	10	Digikey
LED N		15	Sparkfun
Resistor, 330 Ohm (pack of 20) N		1	Sparkfun
Adafruit BMP180 SPI Barometric Pressure & Altitude Sensor N		5	Adafruit
HC-SR04 Ultrasonic/Sonar Distance Sensor Module N		5	FastTech
Battery holder, 9V with barrel jack N (includes qty for Bluetooth)		12	Sparkfun
9V battery N (includes qty for Bluetooth)		12	Sparkfun
Capacitor, 470 uF, through-hole N (includes qty for Bluetooth)		5+	Digikey
10K Ohm Resistor / pack of 20 N		1	Sparkfun
Mini-breadboard, white or blue, 170 tie points N (includes qty for Bluetooth)		12	Sparkfun
Breadboard, 400 tie-in points N	<input checked="" type="checkbox"/>	4	Sparkfun
Pushbutton (EG1325-ND) N (includes qty for Bluetooth)	<input checked="" type="checkbox"/>	12	Digikey
Servomotor, 4.8-6V, 180 degrees N (includes qty for Bluetooth)		5	Sparkfun
Jumpers, M-M, 6" (100-pack) N		1	Sparkfun
Chipboard, 60pt, 9x9", cardboard, 20 sheets N		1	Amazon
Cutting mat, 12"x18", reversible N	<input checked="" type="checkbox"/>	4	Cutting mats.net

Box cutter / Utility knife N	<input checked="" type="checkbox"/>	4	Office Max
Hot glue gun, GR10 N	<input checked="" type="checkbox"/>	8	Amazon
Hot glue, 4", dual temp, 24 pack N	<input checked="" type="checkbox"/>	1	Amazon
Carabiner / Spring snap N		5	Home Depot
Bluetooth wireless serial port module N		1	DX.com
Binder clips - Medium, 1-1/4" - box of 144 N	<input checked="" type="checkbox"/>	1	Office Max
Wire Strippers - 5" N	<input checked="" type="checkbox"/>	4	Harbor Freight
Pliers N	<input checked="" type="checkbox"/>	4	Amazon

Equipment and Supplies required but not supplied by UTeachEngineering

Item	Used in Multiple Units	Quantity	Example Source
Foam core board- white - 10 sheets of 20x30" (or similar construction supplies)	<input checked="" type="checkbox"/>	1	Office Max
Meter sticks / rulers	<input checked="" type="checkbox"/>	4	School Supply
Goggles	<input checked="" type="checkbox"/>	24	Grainger
Mass scale, 0-1000g	<input checked="" type="checkbox"/>	1	Amazon
Computers/laptop	<input checked="" type="checkbox"/>	4 minimum	Technology
Markers, pack of multicolored	<input checked="" type="checkbox"/>	2	Office Supply

Supplies that are not required, but would be **helpful** to teach Engineer Your World
Note: +++ - These supplies will vary, depending on deployment and release decisions.

Item	Used in Multiple Units	Quantity	Example Source
Self-stick easel pad, 25"x30", 30 sheets	<input checked="" type="checkbox"/>	1	Office Depot
Sticky notes, pack of 12 pads, 3"x3"	<input checked="" type="checkbox"/>	1	Office Depot
Mechanical release mechanism, pull pin +++		1	Assemble per instructions in Lesson 6
Mason line (250', #18 nylon), reel +++		3	Home Depot
Work or gardening gloves	<input checked="" type="checkbox"/>	3	Home Depot
Helium balloon, 36" diameter +++		5	Amazon
Helium (in tank or delivered) +++		71 ft ³	Amazon
Extension pole, 8ft+ +++		1	Home Depot
Rope, 200 ft, 1/4" +++		1	Home Depot
Pulley, swivel, for 1/4" rope +++		2	Home Depot
Ground stake, 11"		1	Home Depot

Computer Hardware: The following hardware requirements will enable software to function normally:

	PC	Mac
Operating Platform	Windows 7 or higher	MAC OS X 10.8 (Mountain Lion) or higher
Processor Speed	1 GHz processor	2.1+ GHz Intel™ processor
Memory	4 GB RAM	4 GB RAM
Hard Drive Information	16 GB total hard-disk space	
	300MB available hard-disk space	300 MB available hard-disk space

Software – PC

Required Software			
Number	Software	Link or Location	First used in:
1	Web browser (IE, FireFox, Chrome)	online	Unit 1 - Intro
2	MS PowerPoint (or OpenOffice Impress)	license required	Unit 1 - Intro
3	MS Excel (or OpenOffice Calc)	license required	Unit 1 - Intro
4	MS Word (or OpenOffice Writer)	license required	Unit 1 - Intro
5	Adobe Acrobat Reader	online	Unit 1 - Intro
6	<i>Engineer Your World</i> Quake 2.18	UT BOX Password: _____	Unit 5 - Buildings
7	<i>Engineer Your World</i> Sensor 1.3	UT BOX Password: _____	Unit 6 - Redesign
8	miniBloq 0.83 (or newer)	miniBloq	Unit 7 - Music
9	Arduino 1.0.5 (or newer)	Arduino	Unit 7 – Music
10	<i>Engineer Your World</i> folder: “EYW.zip” (includes “EYW.h” library for import to Arduino)	UT BOX Password: _____	Unit 8 – Systems
Optional Software			
Number	Software	Link or Location	First used in...
1	VUE 3.2.2	VUE	Unit 2 - Needs
2	LabVIEW 2013	license required	Unit 5 - Buildings
3	LabVIEW 2013 NI Elvis (including myDAQ)	license required	Unit 5 - Buildings
4	SketchUp Make	SketchUp	Unit 5 - Buildings

Software - Mac

Required Software			
Number	Software	Link or Location	First used in:
1	Web browser (IE, FireFox, Chrome)	online	Unit 1 - Intro
2	MS PowerPoint(or OpenOffice Impress, Keynote)	license required	Unit 1 - Intro
3	MS Excel (or OpenOffice Calc)	license required	Unit 1 - Intro
4	MS Word,(or OpenOffice Writer)	license required	Unit 1 - Intro
5	Adobe Acrobat Reader	online	Unit 1 - Intro
6	Windows Virtual Machine software, e.g. VMWareFusion	license required	Unit 5 - Buildings
7	<i>Engineer Your World</i> Quake 2.18 (or newer)	UT BOX Password: _____	Unit 5 - Buildings
8	<i>Engineer Your World</i> Sensor 1.3 (or newer)	UT BOX Password: _____	Unit 6 - Redesign
9	Arduino 1.6.5 (or newer)	Arduino	Unit 7 - Music
Optional Software			
Number	Software	Link or Location	First used in...
1	VUE 3.2.2	VUE	Unit 2 - Needs
2	LabVIEW 2013	license required	Unit 5 - Buildings
3	LabVIEW 2013 NI Elvis (including myDAQ)	license required	Unit 5 - Buildings
4	SketchUp Make	SketchUp	Unit 5 - Buildings

***Miniblog software does not yet run on Mac (as of 2016).**