**Summer 2019 Session I – module leader Michael Haskins (Greenhill School)**

**ELECTROMAGNETISM**

9:00 am – 4:00 pm, Mon – Fri, June 10-28

**Location:** 026 Fondren Science Building, SMU, 3215 Daniel Av. It is along the corridor on the right after you enter through the ground level east entrance of Fondren (note: the street address is shared by a contiguous building Heroy). Here are SMU [campus directions](Directions_MPTC.pdf)

**Computers:** Please bring your laptop if you have one, there are no desktops in the lab. Devices can connect automatically to the SMU\_Guest network. They will be redirected to a portal page where they can either login with the appropriate credentials or create an account using their email address. We will send you credentials for a long-term account shortly before the course starts, using your email address which you enrolled with. The password is then sent by the system to the email address. You can always get a 72-hour self-provisioned account, if stuck.

**Parking**: Airline Parking Center at the east end of Fondren is the best place to park and drop off. If you are parking, you will need a permit - residential streets are no parking - which can be obtained here for a small fee <https://smuparking.t2hosted.com/cmn/auth_ext.aspx>

Scroll to Guest link at bottom and create an account.

(You will be fined $50 each time if you park on campus without a permit or in the wrong spaces!)

[**Syllabus**](E%26M_calendar.pdf)

Format: [Modelling Instruction](1-Modeling%20Instruction.pdf) workshop.

Endorsed by the [American Modeling Teachers Association](https://modelinginstruction.org/)

**CONCEPTUAL MODERN PHYSICS**

**Summer 2019 Session II - module leader Dr. Simon Dalley (SMU)**

1:00 – 5:00 pm, Mon – Fri, July 8-19

**Location:**026 Fondren Science Building, SMU, 3215 Daniel Av. It is along the corridor on the right after you enter through the ground level east entrance (Airline) of Fondren Science. Here are SMU [campus directions](http://www.physics.smu.edu/sdalley/MPTC/Directions_MPTC.pdf)

**Computers:** Please bring your laptop if you have one, there are no desktops in the lab. Devices can connect automatically to the SMU\_Guest network. They will be redirected to a portal page where they can either login with the appropriate credentials or create an account using their email address. We will send you credentials for a long-term account shortly before the course starts, using your email address which you enrolled with. The password is then sent by the system to the email address. You can always get a 72-hour self-provisioned account, if stuck.

**Parking**: Airline Parking Center at the east end of Fondren is the best place to park and drop off. If you are parking, you will need a permit - residential streets are no parking - which can be obtained here for a small fee <https://smuparking.t2hosted.com/cmn/auth_ext.aspx>

Scroll to Guest link at bottom and create an account.

(You will be fined $50 each time if you park on campus without a permit or in the wrong spaces!)

[**Syllabus**](MPTC_CMP_syllabus_Sum19.pdf)

Textbook website: [IDEAS OF MODERN PHYSICS](http://www.physics.smu.edu/sdalley/IMP/home.htm) 2nd edition, by Simon Dalley (Kendall-Hunt, 2016). Do not buy it! We will provide an e-book for you.

Format: Pre-class reading and [quizzes](Quiz), [discussion lectures](Modern_PPT_lec), [labs](Modern_labs).

[TEKS matching](TEKS) to textbook subchapters.

[Test practice questions](MPTC_Modern_final_practice_questions.pdf).

We will use PollEverywhere in the classes and you will use it to submit quiz responses before class. There will be invited high school students attending also.

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**Summer 2018 Session II – module leader Dr. Simon Dalley**

**CONCEPTUAL MODERN PHYSICS**

1:00 – 5:00 pm, Mon – Fri, July 9-20

Lecture rm 153 and Lab 026 Fondren Science Building, Southern Methodist University

[**Syllabus**](file:///%5C%5Cbernoulli.physics.smu.edu%5Csdalley%5Cpublic_html%5CMPTC_syllabus_Sum18.pdf)

Format: Pre-class reading and [quizzes](file:///%5C%5Cbernoulli.physics.smu.edu%5Csdalley%5Cpublic_html%5CQuiz), [discussion lectures](file:///%5C%5Cbernoulli.physics.smu.edu%5Csdalley%5Cpublic_html%5CModern_PPT_lec), [labs](file:///%5C%5Cbernoulli.physics.smu.edu%5Csdalley%5Cpublic_html%5CModern_labs).

Text: [IDEAS OF MODERN PHYSICS](http://www.physics.smu.edu/sdalley/IMP/home.htm) 2nd edition, by Simon Dalley (Kendall-Hunt, 2016). Teachers do not buy! We will provide an e-book for you.

 [TEKS matching](file:///%5C%5Cbernoulli.physics.smu.edu%5Csdalley%5Cpublic_html%5CTEKS) to textbook subchapters.

[Post-Test practice questions](file:///%5C%5Cbernoulli.physics.smu.edu%5Csdalley%5Cpublic_html%5CMPTC_Modern_final_practice_questions.pdf).

How to build a particle detector (cloud chamber) for your classes. The kind [we built with teachers at SMU](%5C%5C%5C%5Cbernoulli.physics.smu.edu%5C%5Csdalley%5C%5Cpublic_html%5C%5Cconstruction%20of%20cosmic%20ray%20detector.docx). A more [sophisticated one](file:///%5C%5Cbernoulli.physics.smu.edu%5Csdalley%5Cpublic_html%5Ccf_qn_cloudchamberv1.4mar2012.pdf).

**Preparation**

1) Create a polleverywhere account [www.polleverywhere.com/register?p=6gije-9zu6&pg=tC3VMMu&u=zLUoeiql](http://www.polleverywhere.com/register?p=6gije-9zu6&pg=tC3VMMu&u=zLUoeiql)

We will use polleverywhere in the classes and you will use it to submit quiz responses before class.

2) Read textbook Chapters and submit your answers to the quiz before each class at [pollEV.com](http://pollev.com/) (session username **dalleyphysics**)

**Location**

We will use classroom 153 in Fondren Science Building at SMU, 3215 Daniel Av; it is to the right as you walk through the main entrance of Fondren

**Resources**

Please bring a (paper) notebook or file and a laptop if you have one. I have sent you a password for access to SMU's wireless network.

**Parking**

You will need a permit to park on campus (residential streets are no parking) which can be obtained here

<https://smuparking.t2hosted.com/cmn/auth_ext.aspx>

Scroll to Guest link at bottom and create an account. Cheapest option is 1 month = $28

**Summer 2018 Session I – module leader Dan Garrison**

**ELECTROMAGNETISM**

*CANCELLED DUE TO LOW ENROLLMENT*

(will be offered again in 2019 under different funding arrangement)

**Summer 2017 Session – module leader Nicholas Park**

**MECHANICS**

**8:15 am – 3:30 pm, Mon – Fri, June 5-23**.

[**Syllabus**](file:///%5C%5Cbernoulli.physics.smu.edu%5Csdalley%5Cpublic_html%5CMechanics_Syllabus_2015.pdf)

Format: [Modelling workshop](file:///%5C%5Cbernoulli.physics.smu.edu%5Csdalley%5Cpublic_html%5CMW_course_description_NP.pdf).

Text: TEACHING INTRODUCTORY PHYSICS by Arnold B. Arons (John Wiley, 1996 or 1997). This will be provided to participants who do not already have a copy.

**Summer 2016 Session II – module leader Dr. Simon Dalley**

**MODERN PHYSICS**

9:00am-12:30pm Sat July 9 and 8:00am-3:00pm Mon-Fri July 11-15

153 Fondren Science Building

[**Syllabus**](file:///%5C%5Cbernoulli.physics.smu.edu%5Csdalley%5Cpublic_html%5CMPTC_syllabus_Sum16.pdf)

**Summer 2016 Session I – module leader Michael Crofton**

**ELECTROMAGNETISM**

June 8-28

8:00 AM to 3:30 PM Monday through Thursday and 8:00 AM to 12:00 PM on Friday.

Lab 26 Fondren Science Building

[Draft Calendar](file:///%5C%5Cbernoulli.physics.smu.edu%5Csdalley%5Cpublic_html%5CE%26M_calendar.pdf)

Format: Modelling workshop

**Summer 2015 Session – module leader Nicholas Park**

**MECHANICS**

**9 am – 4pm, Mon – Fri, June 8-26**.

[**Syllabus**](file:///%5C%5Cbernoulli.physics.smu.edu%5Csdalley%5Cpublic_html%5CMechanics_Syllabus_2015.pdf)

Format: [Modelling workshop](file:///%5C%5Cbernoulli.physics.smu.edu%5Csdalley%5Cpublic_html%5CMW_course_description_NP.pdf).

Text: TEACHING INTRODUCTORY PHYSICS by Arnold B. Arons (John Wiley, 1996 or 1997).

**Fall 2015 Session – module leader Dr. Simon Dalley**

**MODERN PHYSICS**

9 am – Noon, Saturdays, Sep 12 – Dec 12 excl. weekends before/after Thanksgiving