ENGI-241: ENGINEERING MECHANICS: STATICS

˙ ˚ ˝ ˛ ˘ ˘ ˈ ˛ ˚ ˝ ⁄ fifl ıŁ˘ Ł ⱡ Žž! "˘ Ł #! $%&%

⁄ fifl ıŁ˘

(˙) * ⁺, , &- ⁺ "ıfiž fl. "˛fi˚ "fi ˙ ˚ ˝ ˛ ˘ ˘ ˈ ˛ ˚ ˝

(˙) * ⁺%⁄ , - ˙ ˚ ˝ ˛ ˘ ˘ ˈ ˛ ˚ ˝ O ˘ . 1! ˙ ˛ Ł-2"! "˛ Ł

(˙) * ⁺%⁄ %⁄ ˛ı. fl˛"Ł ,

Effective Term
#! $%&%⁄

CC Approval
, &3&43%&%

AS Approval
, &3 &3%&%

BOT Approval
, &3 53%&%

COCI Approval
˙ 3&63%&%⁄

$lu

SECTION D - Course Standards

Is this course variable unit?
) fi

Units
' =&&&&&

Lecture Hours
' 4=&&

Lab Hours
6/ =&&

Outside of Class Hours
O%

Total Contact Hours
5&

Total Student Hours
, 4%

Distance Education Approval

Is this course offered through Distance Education?
J˘Ł

Online Delivery Methods

DE Modalities	Permanent or Emergency Only?
˙ ˚ "ˎ˘ $|D ˚ $˚ ˘	Lˇ ıG ! ˚ ˘ ˚ "
K H9ı ˎž	Lˇ ıG ! ˚ ˘ ˚ "
D˚ $˚ ˘ F ˎ"1 Lıfi. "fiı˘ž ˙ P! G Ł	Lˇ ıG ! ˚ ˘ ˚ "

SECTION E - Course Content

Student Learning Outcomes

	Upon satisfactory completion of the course, students will be able to:
, =	7˘ G fiˇ Ł"ı! "˘ C˚ fiF $ ž˝˘ ! ˚ž fl˚ž˘ıŁ"! ˚žˎ˚ ˝ fiA"1˘ ˘ ?fl ˎ$9ı ˎflG fiAıˎ˝ ž 9fiž˘ˎŁ>. ˘ ˚ "ıfiˎžŁ>. ˘ ˚ ˘ˇıŁ fiA˝ˎı! Q"H>! ˚ž Afiı. ˘ Ł fi˚ Łfl9G ˘ı˝˘˘ž ŁflıAˇ. ˘ Ł=
%=	2fi$Q˘ "F fiˇ! ˚ž "1ı˘˘˘ž ˎG ˘˘Łˎfi˚! $˚˚˝ˎ˚˝˘ˎˎ˚ Žıfi9$ G Ł ˎ Qˇ. "fiı G ˘. 1! ˚ˎ Ł>ž˘Ł. flŁŁıˇŁfl$Ł 9fi"1 ?fl! $"!˚Qˇ$H ! ˚ž ?fl! ˚ ˚"ı"Qˇ$H! ˚ž˘PŽ$ˎˎ ž˘Łˎ˘˘ ! ŽŽ$ˎ! "ˎfi˘Ł ! ˚ž $G˚"! "ˎfi˘Ł=
' =	7˘ G fiˇ Ł"ı! "˘ C˚ fiF $ ž˝˘ ! ˚ž fl˚ž˘ıŁ"! ˚žˎ˚ˎ˚ ! ˚! $Rˎˎ˚ "ıflŁŁˎ˘Ł>Aı! G ˘Ł>! ˚ž 9˘! G Ł>ˎˎ. $łžˎ˝ ˘ Ł1ˇ!ıı! ˚ž G fiGˇˇˇ" ž ˎ˚ı! G Ł! ˚ž Aˎˎ ˝",fiˎ˚ =

Course Objectives

	Upon satisfactory completion of the course, students will be able to:
, =	2fi$Q˘ "F fiˎ! ˚ž "1ı˘˘˘ž ˎG ˘˘Łˎfi˚! $˚˚˝ˎ˚˝˘ˎˎ˚ Žıfi9$ G Ł ˎ Ofi$Qˎ˘ ˝ ˘ ?fl ˎ$9ı ˎflG . fiˎ˚ž˘"ˎfiˎ Ł flŁˎ˚ ˝ Qˇ. "fiı G ˘. 1! ˚ˎ Ł=
%=	8˚ ! $Rˇ ž˘Łˎˇˎ˚ Žıfi9$ G Ł ı˘˘?flˎı˚˘˘ ! 9Łfi$Ł"l"˘ Qˎ $Ł˘ˎˎ Ł fiAŁfiı! žŁ fi˚ . fiG Žıfifl˚ 9fiž˘ˎˎ˚Ł>G ! . 1ˎˎ˚Ł>"ıflŁŁˎˎ˚ Ł ! ˚ž fiı"1˘ı Ł"ıfl. "flıˎ˚ Ł=

Course Content

˛ = 2"! "˛ Ł fiAL! ı"˛ $ Ł
   ! = #fiı˛ ˇ Ł˛ ˚ ! L$ ˚ ˙
   9= #fiı˛ ˇ Ł˛ ˚ 2Ž! ˙
%= l ˛˝ ž Bfiž˛ˇ Ł- ˙ ?fl˛Q! $ ˚ " 2HŁ"ˇ G Ł fiA#fiı˛ ˇ Ł
' = ˙ ?fl˛$9ı˛flG fiAl ˛˝ ž Bfiž˛ˇ Ł
   ! = ˙ ?fl˛$9ı˛flG ˛ ˚ @F fi 7˛G ˇ ˙ Ł˛fi˙ Ł
   9= ˙ ?fl˛$9ı˛flG ˛ ˚ @1ı˙ ˙ 7˛G ˇ ˙ Ł˛fi˙ Ł
/ = 7˛Ł"ı˛9fl"ˇ ž #fiı˛ ˇ Ł-/ ˙ ˚ ˙ ˙ı fiı˛žŁ! ˚ ž / ˙ ˚ ˙˙ıŁ fiA*˙ı! Q"H
   ! = 8ı˙! Ł! ˚ ž E˛ˇ ˙ Ł
   9= Mfi$flG ˇ Ł
6= 8˚ ! $Ł˛Ł fiA2"ıfl˛ "flı˙ Ł
   ! = @fl˛Ł˛ˇ Ł
   9= #ı! G ˇ Ł! ˚ ž O! ˛ 1˛ˇ ˙ Ł
4= #fiı˛ ˇ Ł˛ ˚ B˙! G Ł
O= #ı˛ "fi˙

Methods of Instruction

Methods of Instruction

Types	Examples of learning activities
E! 9	E! 9 ˙ PŽˇı˛G ˚ ˙ "Ł-%7 ! ˚ ž ' ˙ 7 #fiı˛ ˇ 2HŁ"ˇ G Ł>2"ıfl˛ "flı! $8˚ ! $Ł˛Ł>21˜! ı #fiı˛ ˇ ! ˚ ž B˚ ˚ ž˛ ˚ O fiG ˇ ˚ " 7˛ı˛ı G Ł>#ı˛ "fi˙
E˙ . "flı˙	Lı˙Ł˚ ˙"! "˛fi˚ fiA. fiflıŁˇ G! "ˇı˛ $
D9Ł˙ıQ! "˛fi˙ ! ˚ ž 7˙G fiı˙Ł"ı! "˛fi˙	7˙G fiı˙Ł"ı! "˛fi˙ Ł flŁ˛ ˚ ˚ Ł˛G fl$ ˙ "˛fi˙ Ł
7˛Ł˛ flŁŁ˛fi˙	Lıfi9$G 2fi$Q˚ ˙ @˙ . 1˚ ?fl˙Ł˛>2"! "˛ Ł QŁ 7H˙! G ˛ Ł

Instructor-Initiated Online Contact Types
8˚ ˙ fifl˙. ˇ G ˚ ˙ "Ł3Bfl$ ˇ"˛ ˚ Bfi! ıžŁ
/ 1! " l fifiG Ł
7˛Ł˛ flŁŁ˛fi˙ Bfi! ıžŁ
˙ ˇG ! ˛$/ fiG G fl˙ ˚ ! "˛fi˙
MŽ˙ˇ fi fiıı @˙ $. fi˙Aˇı˙ ˙. ˛ ˚ ˙

Student-Initiated Online Contact Types
/ 1! " l fifiG Ł
7˛Ł˛ flŁŁ˛fi˙ Ł
*˛fifl˙Ž T fiıC

Course design is accessible
J˙ Ł

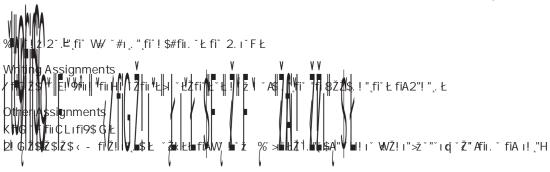# Methods of Evaluation

Methods of Evaluation

Types	Examples of classroom assessments
˙ P! G Ł3@˙ Ł"Ł	O fl$ ˛Ž$ / 1fi˛ ˙ Ufl˙ Ł"˛fi˙ Ł>fi˙ ˙ Ž"fl! $Ufl˙ Ł"˛fi˙ Ł>! ˙ ž) flG ˙ı˛ ! $Lıfi9$G Ł #˛ ˙ ! $˙ P! G ˙ O fl$ ˛Ž$ / 1fi˛ ˙ Ufl˙ Ł"˛fi˙ Ł>fi˙ ˙ Ž"fl! $Ufl˙ Ł"˛fi˙ Ł>! ˙ ž) flG ˙ı˛ ! $Lıfi9$G Ł
LıfiV. "Ł	2"ıfl˛ "flı˙ ˛ ˚ "1˙ l ˙! $T fiı$>8ŽŽ$˛ ! "˛fi˙ Ł fiA2"˛ Ł
K fiG ˙ F fiıC	@ P"9fifiC Žıfi9$G Ł>Lıfi9$G Ł AfiG 1! ˚ žfifl"Ł
E! 9 8. "Q"˛ Ł	Lı˙ ˙$ 9Ł>˙ P˛ . fl"˛fi˙ fiA$ 9Ł>E! 9 l ˙Žfiı"Ł

Assignments

Reading Assignments
2! G Ž$ l ˙! ž˛ ˚ 8Ł˛˛˚ G ˇ ˚ "
˛ -l ˙! ž 2˙ . "˛fi˙ O˜ ˙ ˙+˙"ˇı! $#fiı˛ ˇ Ł 7˙ ˙ Ž˙ž˛ ˚ 2"ıfl˛ "flı! $ ˙! "ˇıŁ P! ˛Ž$ l ˙! Q˙ ˙ fl˛Ł˛ fi˙G ˙ ˙

Writing Assignments

Other Assignments

Proposed General Education/Transfer Agreement

Do you wish to propose this course for a UC Transferable Course Agreement (UC-TCA)?
J ˇ Ł

Course Codes (Admin Only)

ASSIST Update
) fi

C-ID Approval Dates

C-ID Descriptor	Approval Date
˙ PŽ ˌ ˇ ž ∕ ˇ ⊣7 ˙) * I ˌ ' &! ŽŽ ɪ fiQ ˈ \$⊣ ˇ Łfl9G ˌ ŁŁ ˌ fi˚ ɪ ˇ ?fl ˌ ˇ ž =	

CB00 State ID
/ / / &&&' ˌ &W 5,

CB10 Cooperative Work Experience Status
) ˇ Ł) fi" L! ɪ" fiA! ∕ fifiŽ ˇ ɪ! " ˌ Q ˈ T fiⅠC ˙ PŽ ˇ ˌ ˇ ˚ . ˇ ˙ ž fl. ! " ˌ fi˚ Lɪ fi ˝ ɪ! G

CB11 Course Classification Status
J ˇ ∕ ɪ ˇ ž ˌ " ∕ fifl ɪ Ł ˇ

CB13 Special Class Status
) ˇ @1 ˇ ∕ fifl ɪ Ł ˇ ˌ Ł) fi" ! ˚ 8ŽŽ ɪ fiQ ˈ ž 2Ž ˇ . ˌ ! \$∕ \$ ŁŁ

CB23 Funding Agency Category
J ˇ) fi" 8ŽŽ \$ ˌ ! 9\$: 4