

(FRQRPLFV
2IILFH 5RRP

3URIHVVRU 'RQDOO
ZDOGPDQ#FRORU

&RXUVH ,QIRUPDWLRQ

:HOFRPH WR (FRQ 7KLV LV DGILW/DWELR/XULFN LQLSUKRDE
LQWURGXFWRQ WR HFRQRPHWULWRSLSFS/OQFHDVRLQRCPLFZVC

3UHUHTXLVLWHV

7KH PRVW LPSRUWDQW ELDFWRU WRKLOV FWRUWK LQNDIEEOWUD
DGGLWLRQ VWXGHQWV ZLOO ILQHGUMWHDGILQJ RILDQWKHEU
OHYHO RI KLJK VFKRRO \$OJHEUDXQXVGSDBUHQWPLDDOOHQGU
WKLW FRXUVH EXW WKH\ ZLOO EHXULHQG W&DIOFRXOUKWHZLOO

7KH FRXUVH SUHUHTXLVLWHV DUH RI WKH IROORZLQJ
(& 21 DQG
0\$7+
0\$7+
0\$7+
0\$7+ DQG
\$330

,I \RX KDYH QRW WDNHQ RQH RI WKHVHZLOOVRXHW D\ZLFD

,Q WKH ILUVW ZHHN RI FODVV

‡ 3OHDVH UH DG &DQLJOLD WKH FRXUVH WH[WERRN &K
‡ ,I \RX DUH QRW DOUHDG\ FRPIRLWREOMH ZLWK8QLFYUFW
D VLWH OLFHQVH WR WKH 06 211LHHSDFWDLVH RVRHQXLQ
LQ :LQGRZV 3&V DQG VRPH ODFV DQGLWQLWKHYBODEO
FRPSXWHU ODEV ,I \RX ZDQW KHFRPSQWMDOORQRLW R
EXJEXVWHUV RU VHH

<http://www.colorado.edu/oit/services/messaging-collaboration/microsoft-office-365/help/proplus>

&RXUVH 2EMHFWLYHV

‡ 6WDWLWVLFV LV WKH VWXG\ RVLFDWRUWRXFDWQZR
WKDW LV VEMHFW WR UDQGRPQHVM LVKWRPDMRYHRMKNHF
ODQJXDJH PDWKHPDWLFDV\PERVDFWRROV DQG WHFK

‡ 6WDWLWVLFV LV WKH EXLOGLQHESSEINFWRHRRQRIPHV
U RI ÀÀJ Q€À•0:LQGKH V SEXJE RQD0`€00°

/HFWXUHV 5HFLWDWLRQ :RUN /RDG

7KHUH ZLOO EH WZR OHFWXUHV ZHHNORP PHHWLRQJ 7XHVVG
S P LQ %(6& %HQVRQ (DUWK 6FLHQFHV URRP

,Q OHFWXUH , ZLOO FRYHU PRVW VEXWKHWHQV ERRWKHX
DGGLWLRQ VRPH WRSLFV WKDWHDW R QRDUUHQDWHIGV WKH
UHDGLQJ WKH WH[W EXW LW LV XERWHG DLW D WODS SORVZ
HFRQRPLFV PFK EHWWHU E\ DWZHOGLQJOSHFVXUHQDV,Q
E\ EHLQJ SDUW RI WKHWRXSGXNDLQJRWUJ ER ZRUNL
LQ OHFWXUH H[HUFLVHV DQG LQ RWKHU ZD\

,Q DGGLWLRQ WR WKH OHFWXUH WRN VRORZGLQH UHFLWD

1XPEHU	'D\	7LPH	5RRP
7		2	+801
7		2	+106
7+		2	+801
7+		2	+801

,Q UHFLWDWLRQ PDWHULDO ZLOVEDHQSUSVREOHFH UHWHY
DGGLWLRQ ([FHO SURJUDPPLQJ DOWWRHLW ZLOQCEMHGU
RI WKH FRXUVH 7KHUH DUH PRUHLWVQRQ VWXGHQVWV
WR OHDUQ RQH RQ RQH 6LQFH KRZ ERVUHHFRPYSURXUV
XVXDO WKUHH FUHGLW FRXUVH UHFLWDWLRQ DWWHQGDC

7R SDVV WKLW FRXUVH \RX PXVW DWWHQG DW OHDVV

,Q P\ H[SHULHQFH IRU D VWXGHQJWRZKDYH UDJDJH P
DGGLWLRQDO *Realtime* WR WZR KRXUV QGZRONERXWTLU
DVVLJQPHQWV LQ RUGHU WR IXOKLQSRXUVVHDQV DUKWVFR
IDLUO\ EDVLF FRQFHSWV EXW GRQWFRSHWXDQLDVQLVOHD
PDWKHPDWLFDO ULJRU LQFUHDVH DV WKH VPHVWHU SUR

&RXUVH 2XWOLQH

7KH FRXUVH *Probability* V ZLWK *statistics* FRQLQXHV ZLWK
econometrics DOO WHUPV WR EH GHILQH

7KH IROORZLQJ LV D OLVW RI VHWVIRHQVFRQVFRYHFLWGH
EH XVHIXO WR \RXUWRLQHWKZKWHKZKUDLVWDXKDWVHFR
SUHYLRXVO\ EXW , H[SHFW LW ZLXOXDQVWVROQWPHDC

Section 1

- ‡ 5HVHDUFK LQ ³+DUG' DQG ³6RIW VFLHQFHV
- ‡ 6XPPDWLRQ QRWDWLRQ
- ‡ ,QWURGXFWRQ WR SUREDELOLW\ \$[LRPV 9HQQ GLD.
- ‡ \$GGLWLRQ DQG FRPSOHPHQW UXOHV RI SUREDELOLW\
- ‡ &RQGLWLRQDO SUREDELOLW\
- ‡ 7UHH GLDJUDPV
- ‡ ,QGHSHQQGHQFH DQG PXWXDO H[FOXVLYLW\
- ‡ %D\HV ODZ
- ‡ 8UQ SUREOHPV
- ‡ %D\HV /DZ IRU SDUWLWLRQV

Section 2

- ‡ 5DQGRP YDULDEOHV DQG SUREDELOLW\ GLVWULEXWLRQ

‡ 'LVFUHWH UDQGRP YDULDEOHV WKH SUREDELOLW\ PD
‡ %HUQRXOOL ELQRPLDO DQG 3RLVVRQ UDQGRP YDULD
‡ 0DWKHPDWLFDQ H[SHFWDWLRQ
‡ ([SHFWDWLRQ RI D IXQFWLRQ RI UDQGRP YDULDEOHV
‡ &RQWLQXXV UDQGRP YDULDEOHV WKH SUREDELOLW\
‡ 7KH SRZHU H[SRQHQLDO DQG VWDQGDUG QRUPDO G
‡ %LYDULDWH PDUJLQDO DQG FRQGLWLRQDO GLVWULE
‡ &RQGLWLRQDO H[SHFWDWLRQ DQG YDULDQFH
‡ &RYDULDQFH DQG FRUHHODWLRQ

Section 3

‡ 7KH JHQHUDO QRUPDO GLVWULEXWLRQ
‡)URP SUREDELOLW\ WR VWDWLWLVFV SRSXODWLRQ D
‡ 6DPSOLQJ WKHRU\ WKH GLVWULEXWLRQ RI WKH VDPS
‡ 7KH &HQWUDO /LPLW 7KRUHP
‡ 7KH FKL VTXDUHG GLVWULEXWLRQ
‡ 3RLQW HVWLPDWLRQ
‡ 8QELDVHGQHVV DV D SURSHUW\ RI DQ HVWLPDWRU

6LQFH WKHUH LV QR GLVN RU NHV RFR DXW O B FZL W KS W E O V VE
VLQFH WKHUH LV RQO\ RQH HGLW DRQ ZDQR SXVHGKFRS H LW
EHHQ XVHG IRU W W B O R X P H O X D W H B Z H T O D V W W H Y M E D V \$

7KH\ ZLOO EH FRPSRVHG RI TXHVWLRQV RI WKK HDW HZ[HO
DGGLWLRQDO TXHVWLRQV

‡ 7KH ILQDO H[DP LV FXPXODWLYH WR EH JL\$HQ RQ 7X
\$GGLWLRQDO QRWHV RQ WKH SUREOHP VHVV

‡ <RX PXVW DQVZHU DOO H[HUFLVHV EXW QRW DOO ZLOO
‡ 2Q VRPH SUREOHP VHVV WKHUHU ZLOO DEEHFDQ (7KH
DUH WUXO\ H[WUD FUHGLW WKH FODDQ RQ\ WKHL HQGRU W
ZLOO FDOFXODWH JUDGHV IRU HYMUD VWXGHQWS ZRWGRW
, ZLOO UHWXUQ WR P\ DVVHVVPHQM V SXHGHQWKV HZWRDQY
DQG DW OHDVW VRPHWLPHV VXFFHVMXODFDWOLHP SWRG

3SUREOHP VHVV DQG TXL] GHGOLQHVSRODGLQJ FHOO SKR

‡ /LNH PDQ\ FRXUVHV EXW XQOLNH FRXUVHV WKLV WRS
FRXUVH LV VHTXHQWLDQ LQ QDWLCHO LKOW EM XQXQWBO
XQOHVV 7XHVGD\ V PDWHULDO KDVEHQHUPDWVGHGJ PDK
HDVLHU DQVZHUV WR TXL]]HV DQ SUREOHP OHDWBUOW
GDWH DQG WLPH 7KLV PHDQV VWUJ]FW GGG SORCEOH PRVH

‡ 7KH ORZHVW SUREOHP VHVV VFRUH GDRSSWGH OIRZHQV
WKLW SROLF\ WKH IDFW WKDW VROXWU RQKHZD OOL EGP SRW
DQG WKH LPSRUWDQFH RI NHHSLQQR SDVQ HSWHREDMF ULHM
TXL]]HV ZLOO EH DFFHSWHG

6XFFHVVIXO VWXGHQV HLQHQILUD ODXUR\ODRZLJG WHQW UH
‡ UHYLHZ \RXU QRWHV VRPHWLPH DNRXUVODHFWXUH EXW
‡ ZRUN ILUVW RQ JOKO SUREOHP OHDWBUOWKXUVGDV WVSHP
DSSOLHV WR VWXGHQWV ZLWK 7KXUVGD\ DIWHUQRRQ U
WDNH WKH RQOLQH WLPHG TXL] E\ 7XHGD\ V OHFWXUH
ILQLVK WKH SUREOHP VHVV E\ 7KXUVGD\ V OHFWXUH

1RWH \RX PD\ ZRUN WRJHWKHU RQ+ SUREOHP HDWVWVW XQH
PXVW KDQG LQ WKH ZULWWHQ SUREOHP VHVV VROXWLRQV

‡ &HOO SKRQH ODSWRS SROLF\
BB

Notice for students with disabilities

,I \RX TXDOLI\ IRU DFFRPPRGDWLRQV XEPDWWWRP B LOHD
IURP 'LVDELQW\ 6HUFLFHV LQ D WLOHON DGGQHVVWV WKE
'LVDELQW\ 6HUFLFHV GHWHUPLQHVHDFGRFEGOMWLRQW E
&RQWDFW :LOODUG DQGLVZV HRYOLFHDGR ('8

