Ghi XVbh

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'HDU &ROOHJH RI)LVKHULHV DQG 2FHDQ 6FLHQFHV &)26 6WXGH

7KLV KDQGERRN KDV EHHQ SUHSDUHG WR DFTXDLQW \RX ZLWK L

OVERVIEW OF THE COLLEGE

University of Alaska Fairbanks
College of Fisheries and Ocean Sciences
Departments of Marine Biology Oceanography

The School of Fisheries and Ocean Sciences (SFOS) was crea[...]
fisheries and marine sciences programs of the Universit[...]
of Fisheries and Ocean Sciences changed to the College [...]
(CFOS) which is one of the most diverse colleges of the U[...]
distribution and academic mission The College achieve[...]
education and public outreach There are approximate[...]
the students enjoy a low student to faculty ratio[...]

The College of Fisheries and Ocean Sciences offers under[...]
well as two undergraduate minors Undergraduate stud[...]
concentrations in Rural and Community Development or[...]
Science or a BS in Fisheries and Marine Sciences conce[...]
Biology Oceanography and no concentration the no con[...]
synchronous asynchronous or hybrid concentration St[...]
complete a minor in Fisheries or Marine Sciences

The UAF College of Fisheries and Ocean Sciences offers fiv[...]
Fisheries Marine Biology Oceanography Marine Studies [...]
with the UAF College of Business and Security Managemen[...]
of these programs have minimum requirements of credi[...]
in Fisheries Marine Biology and Oceanography These ind[...]
substantial flexibility in required and elective cours[...]

STUDENT RESPONSIBILITIES

As a graduate student, you are fully responsible for kn
regulations and requirements for graduates and the co
requirements. For this reason, you must become familiar
outlined in this Graduate Bulletin and the

GRADUATE DEGREE REQUIREMENTS

Graduate education should be an intense, coordinated
time and aimed at obtaining professional skills and or
and scholarly work. To receive a degree from the Univers
student must meet three sets of requirements: general
requirements, and program or department requirements

Degree programs must be composed of courses in the stud
supportive of that discipline. All courses to be appli
the student's advisory committee, Department Chair, an

TIME LIMITS FOR COMPLETION OF DEGREES

You may elect to graduate under the degree requiremen
enrollment in your graduate degree program or the cat

7UDQVIHU &UHGLWV

<RX PD\ DSSO\ SRVW EDFFDODXUHDWH GHJUHH FUHGLWV HDUQHG
VWXGHQW WRZDUG D JUDGXDWH GHJUHH RQO\ ZLWK WKH DSSURY
WR D PD[LPXP RI RQH KDOI RI DOO FUHGLWV XVHG WR PHHW \RXU
RI DOO JUDGXDWH GHJUHH FUHGLWV DSSURYHG IRU \RXU SURJUD
8$6 1R PRUH WKDQ RQH WKLUG RI DSSURYHG SURJUDP FUHGLWV
DFFUHGLWHG LQVWLWXWLR QRPPXWW VHGHQWDKLP 8SLPXVW IURP % JUDG
JUDGXDWH FRXUVHV SUH RWOHU UGGIRU FWDLQDQRWEHU WUDQVIHUUHG

&RXUVH 5HVWULFWLRQV

<RX PD\ QRW XVH FUHGLW E\ H[DPLQDWLRQ DXGLWHG FRXUVHV
WDNHQ XQGHU WKH FUHGLW QR FUHGLW RSWLRQ WR IXOILOO WK
SURJU QRPPRUH WKDQ FUHGLWRXUJVHFLDORUWRSLFV LQGLYLGXD
PD\ EH XVHG WRZDUG D 5HTXLUHGDWH[FHSWULHQV WR WKH OLPLW
DSSURYHG WKURXJK \RXU DGYLVRU\ FRPPLWWHH 'HSDUWPHQW &
$FDGHPLFV ZLWK ILQDO DSSURYDO IURP WKH 'LUHFWRU RI WKH

&RXUVH 'H1FLHQFLHV

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\RXU GHJUHH SURJUDP <RXU FRPPLWWHH ZLOO GHWHUPLQH HDU
GHILFLHQFLHV DQG WKH PLQLPXP OHYHO RI SHUIRUPDQFH UHTXL
XQGHU WKH FUHGLW QR FUHGLW RSWLRQ DXGLW RU WKURXJK F

(QJOLVK 'H1FLHQFLHV

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FRPPLWWHH ZLOO GHWHUPLQH WKH UHTXLUHPHQWV WR UHPRYH
DQG 2FHDQ 6FLHQFHV GRHV QRW UHTXLUH JUDGXDWH VWXGHQWV
UHTXLUHPHQW DV SDUW RI WKHLU GHJUHH

/HDYH RI $EVHQFH

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WK*UDGXDWH 6FKRRRXZKRXOG OHHG WLPHWR ZULWH P\ WKHVLV
DFFHSWHG E\ WKH *UDGXDWH 6FKRRO DV D UHDVRQ IRU D OHDYH
VWXGHQWV DUH SUHVXPHG WR EH DFWLYHO\ ZRUNLQJ WRZDUG W
DGYLVRU DQG DGYLVRU\ FRPPLWWHH ,Q WKDW FDVH VWXGHQWV
WKHVLV FUHGLWV SHU VHPHVWHU $FFHSWDEOH UHDVRQV IRU D
ILQDQFLDO QHHGV IDPLO\ FRPPLWPHHWVLQFO3SHUVRQDOOGLDWL
FRPPLWWHHV DUH QRW VXSSRVHG WR SURYLGHVRKOQRLWHKOSWX
WLPH GXULQJ D OHDYH RI DEVHQFH FRXQWV WRZDUGV WKH WRW

*UDGXDWH)RUPV

$OO JUDGXDWH IRUPV 8UH GORFXOWHG RQ WKH 8) *UDGXDWH 6FKR
XVHV WKH 1H[W*HQ 'BQDPLF)RUPV SODWIRUP DQG FROOHFWV DOO
WKDW BRX UHYLHZ WKH VLJQDWXUH SURFHVV DQG ZKR VLJQV HDF
WKH PDMRULWB RI WKH IRUPV EXW WKH $VVRFLDWH 'HDQ RI $FD
LPSRUWDQW WKDW VWXGHQWV GR 127 XVHDDOXVLWURPPPDXOV NHJHG
IDFXOWB DQG VWDII 7KH HPDLO ZLOO QRW UHDFK WKH VLJQDWR
WR EH VHQW WR &KULVWLQD 6XOWRQGHSDUWPHQW FRRUGLQDWRU

5HTXLUHG 0HHWLQJV DQG 5HTXLUHG)RUPV LQFOXGLQ
<HDU

)RUPV DQG 7KHVLV 'LVVHUWD		'HDGOLQH 'DWHV
$SSRLQWPHQW RI $GYLVRUB & KWWS ZZZ XDI HGX JUDGVFK	6HH &RPPLWWHH JXL BRXU SURJUDP KDYH VLJQ WKLV IRUP 00 QRW QHHG WR ILOO	(QG RI WKH ILUVW VHPHV
*UDGXDWH 6WXGB 3ODQ KWWS ZZZ XDI HGX JUDGVFK	$SSURYHG GXULQJ F PHHWLQJV DOO PHP VWXGHQWV PXVW VL LQFOXGH D SDJH SURSRVDO DSSURYH FRPPLWWHH 003 VW ZRUN ZLWK WKHLU D	%B WKH HQG RI WKH ILUVB VWXGHQWV %B WKH HQG VWXGB IRU DOO RWKHU VB
$QQXDO 5HSRUW KWWS ZZZ XDI HGX JUDGVFK	7KLV IRUP LV GXH H PHPEHUV DQG VWXG VLJQ 7KH UHSRUW K VHOI HYDOXDWLRQ U WKH VWXGHQW 003 VWXGHQWV ZLOO RQ LI WKHLU SURJUDP F SURMHFWHG WR FRQ PRQWKV	0D\ 6WXGHQWV HQWHULQJ WK PXVW VXEPLW DQ DQQXDO RI WKH ILUVW BHDU RI VW 6SULQJ PXVW VXEPLW DQ 'HFHPEHU

$GYDQFHPHQW WR &DQGLGDF

*UDGXDWH $GYLVRU\ &RPPLWWHHV 06 DQG 3K' VW

(DFK JUDGXDWH VWXGHQW LV JXLGHG E\ D PDMRU DGYLVRU SURI...
FRPPLWWHH FKDLU DQG D JUDGXDWH DGYLVRU\ FRPPLWWHH 6W...
DGYLVRU ZKHQ WKH\ DUH DFFHSWHG LQWR *UDGXDWH 6FKRRO $...
DGYLVRU\ FRPPLWWHH E\ WKH HQG RI WKHLU ILUVW \HDU 6WXGH...
JXLGHOLQHV JLYHQ EHORZ DQG ZLWK WKH DGYLFH DQG DSSURYD...
DJUHHPHQW RI DOO SURSRVHG PHPEHUV $SSRLQWPHQW\RXU&KXDOG...
*UDGXDWH &RPPLWWHHUPV ZLOOOLQDWRXUHGXILQJ WKH 1H[W*HQ...
WKH SURSRVHG FRPPLWWHH LQFOXGHV DQ\ PHPEHUV ZKR GR QRW...
JXLGHOLQHV SOHDVH PDNH D QRWH RQ WKH 1H[W*HQ IRUP LQ W...
WR H[SODLQ ZK\ WKH GHSDUWXUH IURP JXLGHOLQHV ZRXOG EH E...

7KH SURSRVHG FRPPLWWHH LV UHYLHZHG E\ WKH 'HSDUWPHQW &...
GHHPHG QHFHVVDU\ &KDQJHV PLJKW EH UHTXHVWHG LI WKH JXL...
IROORZHG DQG LI WKHUH LV LQVXIILFLHQW MXVWLILFDWLRQ IRU...
EHIRUH WKH SDSHUZRUN LV IRUZDUGHG WR WKH &)26 $VVRFLDWH...
DSSURYDO DQG VLJQDWXUH

,I WKH SURSRVHG FRPPLWWHH LV QRW DSSURYHG LW LV UHWXUQ...
IRU PRGLILFDWLRQ RU IRU EHWWHU MXVWLILFDWLRQ 2FFDVLRQD...

&RPPLWWHH &RPSRVLWLRQ

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0 6 'HJUHH
Â 7KHVLV DGYLVRU\ FRPPLWWHHV IRU 0 6 VWXGHQWV LQ)LVKHU
PHPEHUV RQH RI ZKRP LV WKH FKDLU
Â 7KH FRPPLWWHH FKDLU PXVW EH WHQXUHG RU WHQXUH WUDFN
WKH)LVKHULHV 'HSDUWPHQW PXVW EH DQ DSSURYHG $ODVND &
8QLW $.&):58 IDFXOW\ ZLWK D IRFXV LQ ILVKHULHV DQ DSSURY
0DULQH %LRORJ\ RU 2FHDQRJUDSK\ RU EH DSSURYHG &ROODERU
Â 5HVHDUFK DSSU RYHG DW WKH LDWH URDO GRW WKH OLDWHPHPEHUV LQ WKH)LVKHU
'HSDUWPHQW PD\ FR FKDLU EXW PD\ QRW FKDLU 0DVWHU V DGYL
FRPPLWWHH PHPEHUV PXVW EH DSSURYHG IDFXOW\ LQ RQH RI WK
KDYH WKHLU SULPDU\ DFDGHPLF DSSRLQWPHQW LQ WKH)LVKHUL
Â 2WKHU PHPEHUV RI DGYLVRU\ FRPPLWWHHV PD\ EH IDFXOW\ IUR
8$) GHSDUWPHQWV RWKHU XQLYHUVLWLHV RU WKH\ PD\ EH VXL
IURP RXWVLGH DFDGHPLD
Â $GGLWLRQDO PHPEHUV EH\RQG WKH WKUHH UHTXLUHG PD\ LQF
GR QRW KROG D JUDGXDWH GHJUHH EXW DUH DSSURYHG E\ D PD
IDFXOW\

3K' 'HJUHH
Â 'LVVHUWDWLRQ DGYLVRU\ FRPPLWWHHV IRU D 3K' VWLWDXVGHHQQWRXXV LQ
PHPEHUV ZKR KROG G RFRQRRUJDDOWGKHFK UHKDLU
Â 7KH FRPPLWWHH FKDLU PXVW EH WHQXUHG RU WHQXUH WUDFN
WKH)LVKHULHV 'HSDUWPHQW PXVW EH DQ DSSURYHG $ODVND &
5HVHDUFK 8QLW $.&):58 IDFXOW\ ZLWK D IRFXV LQ ILVKHULHV
WHQXUH WUDFN IDFXOW\ LQ 0DULQH %LRORJ\ DQG 2FHDQRJUDSK\
Â 5HVHDUFK DSSU RYHG VD IIEFXOPWHPEHUV LQ WKH)LVKHULHV 'HSD
FR FKDLU EXW PD\ QRW FKDLU GRFWRUDO DGYLVRU\ FRPPLWWHH
Â $W OHDVW WZR FRPPLWWHH PHPEHUV PXVW EH DSSURYHG IDF[
OHDVW RQH PXVW KDYH WKHLU SULPDU\ DFDGHPLF DSSRLQWPHQ
Â 2WKHU PHPEHUV RI DGYLVRU\ FRPPLWWHHV PD\ EH IDFXOW\ IU
8$) GHSDUWPHQWV DQG RWKHU XQLYHUVLWLHV RU WKH\ PD\ EH
VFLHQWLVWV IURP RXWVLGH DFDGHPLD
$GGLWLRQDO PHPEHUV EH\RQG WKH IRXU UHTXLUHG PD\ LQFOXG
GR QRW KROG D GRFWRUDO GHJUHH EXW DUH DSSURYHG E\ D PD
IDFXOW\ WKH &)26 'HDQ DQG WKH *UDGXDWH 6FKRRO

&RPPLWWHH DSSURYDO
7KH FRPSRVLWLRQ RI JUDGXDWH DGYLVRU\ FRPPLWWHHV LQ)LVK
YRWH RI WKH)LVKHULHV 'HSDUWPHQW IDFXOW\ XQOHVV WKH\ KD
WHQXUH WUDFN HPHULWXV RU DSSURYHG UHVHDUFK IDFXOW\ L
RU FROODERUDWLQJ IDFXOW\ DSSRLQWPHQW RU DUH DSSURYHG

%BchYadcmYXVmhYIbjjYfghmcZ5`g`U'

&9adcmYXVmhYIbjjYfghmcZ5`g`Ui hbchUfhybi fYhfUWcfhYgYfWZWh\hma Ya Vsfj]bhY:]g\Yf]Yg8YdUfha Ybzzbch\c X]b[U^c]bhUddc]bhaYbh]bhY

:]g\Yf]Yg8YdUfhaYbzbchYafY]hig]bhY:]g\Yf]Yg8YdUfhaYbzUbXcihb5`g`U7cc`MfUbjY:]g\UXK]X]YZYb]zWW]bhmfh]h UfWWhtbg Yfh Yg

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- 7KH LQWURGXFWLRQ VKRXOG JLYH VRPH EDFNJURXQG
  WRSLF DQG \RXU V\VWHP UHJLRQ DQG KDELWDW
- 7KH LQWURGXFWLRQ VKRXOG DGGUHVV
  - :K\ DUH \RX GRLQJ WKLV"
  - :K\ VKRXOG ZH FDUH DERXW WKLV"
  - :KDW LV NQRZQ DERXW WKLV WRSLF"
  - :KDW DUH \RX FRQWULEXWLQJ WR WKH H[LVWLQ
- 7KH LQWURGXFWLRQ VKRXOG GHPRQVWUDWH WKDW \R
- <RX QHHG VRPH UHIHUHQFHV LQ \RXU LQWURGXFWLRQ
  UHVHDUFKHG \RXU WRSLF

o 5HVHDUFK TXHVWLRQ

- &OHDUO\ VWDWH \RXU K\SRWKHVLV RU TXHVWLRQV DQ
  WR MXVW KDYH RQH K\SRWKHVLV RU TXHVWLRQ
  - *RRG UHVRXUFHV WR UHIHU WRR
    - (6$ JXLTGGHMIRXM»G ;VMXMRK 1EHI +EWMIV %S7XIT•F]T•T
      9RHIVKVEHYEXI ;VMXMRK MR XLI &MSPSKMGEP 7GM
    - 4YVHYI K;YMMHXMRK MW E 'SRZIVWEXMSR 4YVHYI 3;0

o 0HWKRGV

- $ PHWKRGV VHFWLRQ WKDW VKRZV \RX KDYH WKRXJKW
  DGGUHVV \RXU P@

7KH *UDGXDWH 6WXG\ 3ODQ VKRXOG EH WKH EDVLV IRU FRPSOHW
&DQGLGDF\ EXW LW LV QRW QHFHVVDU\ WR VXEPLW DQRWKHU *U
6FKRRO ZLWK WKH $SSOLFDWLRQ IRU $GYDQFHPHQW WR &DQGLG

$ SHWLWLRQ IRUP LV XVHG WR UHTXHVW DQ\ FKDQJHV WR WKH $
EHHQ ILOHG 7KH SHWLWLRQ PXVW EH VLJQHG E\ WKH FRPPLWWH
'HDQ RI $FDGHPLF 3URJUDPV 7KH SHWLWLRQ IRUP FDQ EH IRXQG

D^ PŒ W

<RX PD\ DSSO\ IRU DGYDQFHPHQW WR FDQGLGDF\ LI \RX DUH LQ

    6DWLVIDFWRULO\ FRPSOHWHG SURJUDP FRUH FRXUVHV

)RU 2FHDQRJUDSK\ VWXGHQWV FRPSOHWH WKUHH FRUH FRXUVHV DQG
    VXFFHVVIXOO\ GHIHQG D WKHVLV SURSRVDO

)RU ILVKHULHV VWXGHQWV VXFFHVVIXOO\ GHIHQG D WKHVLV

)RU PDULQH %LRORJ\ VWXGHQWV SDVV \RXU DUHD UHTXLUHG FODVV VHULRORJ\
    2FHDQRJUDSK\ 3K\VLRORJ\ RU ZLWK %LR RU %HKDYLRU VDQG VXFFH
    GHIHQG WKH WKHVLV SURSRVDO LQ D SXEOLF VHPLQDU VHW

)RU PDULQH 3ROOXWLRQ VWXGHQWV VXFFHVVIXOO\ VFRPSOHWHG WHW KRXUV RI
    DQG HOHFWLYH FRXUVHZRUN ZLWK JUDGHV RI % RU EHWWH

)RU PDULQH 6WXGLHV VWXGHQWV VXFFHVVIXOO\ VFRPSOHWHG WHW KRXUV RI
    DQG HOHFWLYH FRXUVHZRUN ZLWK JUDGHV RI % RU EHWWH

    +DYH D   *3$

WZ PŒ W

<RX PD\ DSSO\ IRU DGYDQFHPHQW WR FDQGLGDF\ IRU WKH 3K' GH
DQG KDYH DFFRPSOLVKHG WKH IROORZLQJ

    &RPSOHWHG WKH IXOO WLPH HTXLYDOHQW RI WZR DFDGHP

    5HFHLYHG DSSURYDO RI WKH *UDGXDWH 6WXG\ 3ODQ

    2EWDLQ FRPPLWWHH DSSURYDO RI GLVVHUWDWLRQ SURSR

    3DVVHG D ZULWWHQ DQG RU RUDO TXDOLI\LQJ H[DPLQDWL
WR VHH ZKLFK LV UHTXLUHG

    0DULQH %LRORJ\ DQG ZFHDGRORJ\ VWKHSUV SURSRVDO LQ D
VHPLQDU

)RU 0DULQH %LRORJ\ VWXGHQWV +DYH FRPSOHWHG RU FD
XQGHUVWDQGLQJ RI WKH FRXUVH PDWHULDO FRYHUHG LQ 0D
2FHDQRJUDSK\ DQG 3K\VLRORJ\ RI 0DULQH 2UJDQLVPV 7KHV
,) VLPLODU FRXUVHV ZHUH WDNHQ

([DPLQDWLRQV

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LQWHJUDWHG NQRZOHGJH DQG XQGHUVWDQGLQJ RI WKH SULQFLS
DQG UHODWHG ILHOGV

)LVKHULHV &RPSUHKHQVLYH H[DPLQDWLRQ 06 DQG 3

06 VWXGHQWV LQ)LVKHULHV F,RPSOHDKHG &RPSUHKHQVLYH ([DPLQD
06)LVKHULHV VWXGHQWV DUH UHTXLUHG WR SUHVHQW DQG GHIHQG D
EHIRUH WKH DGYLVRU\ FRPPLWWHH DQG ILOH D 5HSRUW RQ &RP
7KH IRUPDW RI WKH SURSRVDO VKRXOG DGKHUH WR VWDQGDUG S
HVWDEOLVKHG %RUHWHDHURU 3OOHSURMHFW 'H&FDSSWLRQ 3URSRV
3UHSDUDWLRQ ,$VSODXFHWPLRQVLFXPUHOHFRPWKHQGHG ,Q DQ RUDO H
IROORZLQJ WKH VWXGHQW V SUHVHQWDWLRQ WKH FRPPLWWHH Z
SURSRVDO E\ WKH VWXGHQW¶V DELOLW\ WR H[SODLQ DQG MXVV
XQGHUVWDQGLQJ RI WKH EURDGHU FRQWH[W DQG VLJQLILFDQFH
DQG PDQDJHPHQW DQG G DQ\ DGGLWLRQDO WRSLFV LGHQWLILH
 *63 DV VSHFLILHG E\ WKH FRPPLWWHH $GGLWLRQDO WRSLFV V
HVVHQWLDO WR WKH VWXGHQW V WKHVLV DQG VKRXOG EH EDVHO
DJUHHG XSRQ EDFNJURXQG PDWHULDOV 4XHVWLRQV DERXW WKH
 G VKRXOG EH DSSURSULDWH WR DQ 06 OHYHO VWXGHQW HDUG

7KH SURSRVDO GHIHQVH PXVW EH FRPSOHWHG GXULQJ RU EHIRU
VRPH FLUFXPVWDQFHV HJ ZKHQ D FODVV WKDW LV HVVHQWLD

WR 3DVV ,I WKH JUDGH LV QRW FKDQJHG WR 3DVV ZLWKLQ WKH
DW WKH FRPSUHKHQVLYH H[DPLQDWLRQ WKH JUDGH EHFRPHV)D

,I WKH $GYLVRU\ &RPPLWWHH ILQGV WKDW WKH VWXGHQW V SHU
NQRZOHGJH WKH H[DP ZLOO EH JUDGHG)DLO 6WXGHQWV IDLO
HQWLWOHG WR D VHFRQG H[DPLQDWLRQ $IWHU WZR IDLOXUHV
'HSDUWPHQW &KDLU WR VLW LQ WKH H[DPLQDWLRQ D WKLUG WLP
SHWLWLRQ ,I D WKLUG DWWHPSW LV XQVXFFHVVIXO DQG WKH &
SHUIRUPDQFH WR EH XQVDWLVIDFWRU\ WKH VWXGHQW ZLOO EH

,I WKH VWXGHQW GLVDJUHHV ZLWK WKH RXWFRPH RI WKH H[DPP
VWXGHQW FDQ DSSHDO WKH GHFLVLRQ RI WKH FRPPLWWHH WKUR
DFDGHPLF DSSHDOV

003 VWXGHQWV &RPSUHKHQVLYH H[DPLQDWLRQ RU &D

5HWDNLQJ WKH 06 0DULQH %LRORJ\,I&WR SUHKHPWLWHH(GR FLGHV
VWXGHQW ODFNV NQRZOHGJH LQ VRPH RI WKH DUHDV FRYHUHG O
³&RQGLWLRQDO 3DVV´ 7KH FRPPLWWHH ZLOO WKHQ GLFWDWH ZK
FRQGLWLRQV FDQ LQFOXGH EXW DUH QRW OLPLWHG WR UHPHGL
DQG RU VDWLVIDFWRU\ DQVZHUV WR ZULWWHQ TXHVWLRQV DIWH
FDVHV WKH FRPPLWWHH PD\ UHTXLUH DQ DGGLWLRQDO H[DPLQD
GHILFLHQF\ KDV EHHQ RYHUFRPH 7KH FRQGLWLRQV PXVW EH PH
³3DVV´ ([FHSW XQGHU XQXVXDO FLUFXPVWDQFHV ZKLFK VKRXO
'HSDUWPHQW &KDLU WKH FRQGLWLRQV PXVW EH PHW ZLWKLQ RQ
RQH VHPHVWHU WKH VWXGHQW LV QRW PDNLQJ VXEVWDQWLDO S
DQG GRHV QRW KDYH DQ DFFHSWDEOH UHDVRQ IRU WKH GHOD\ \
H[DP JUDGH WR ³)DLO´ ,I WKH VWXGHQW¶V DQVZHUV DUH RYHUL
H[DP ZLOO EH JUDGHG ³)DLO´ $ IDLOHG H[DP FDQ EH UHSHDWHG
H[DP 7KH &)26 $FDGHPLF 3URJUDPV 2IILFH VKRXOG DJDLQ EH QR
SODQQHG H[DP GDWH DQG D QHZ IDFXOW\ H[DPLQHU IURP WKH 0
DVVLJQHG 6WXGHQWV VKRXOG ZRUN ZLWK WKHLU FRPPLWWHH W
DWWHPSW ,I WKH H[DP LV IDLOHG D VHFRQG WLPH WKH VWXGH
H[DP WR UHWDNH WKH H[DP IRU WKH WKLUG WLPH 7KH SHWLWL
VWXGHQW¶V DGYLVRU\ FRPPLWWHH PHPEHUV DQG FKDLU VWDWLO
VXEPLWWHG WR WKH 'HSDUWPHQW &KDLU IRU DSSURYDO 7KH OH
FRQYLQFLQJ H[SODQDWLRQ RI WKH UHDVRQV ZK\ WKH ILUVW WZR
GHWDLOHG VWHSV LQFOXGLQJ D WLPHOLQH IRU FRPSOHWLQJ WK
,I D WKLUG DWWHPSW LV XQVXFFHVVIXO QR RWKHU DWWHPSWV
DEOH WR FRPSOHWH WKH 0 6 GHJUHH UHTXLUHPHQWV IRU 0DULQ
WKH RXWFRPH RI WKH H[DP WKH VWXGHQW FDQ DSSHDO WKH GH
HVWDEO0LVKHG SURFHVV IRU DFDGHPLF DSSHDOV

7KH FRPSUHKHQVLYH H[DPLQDWLRQ IRU 3K'HOTXDOLILQHV %LRORJ\ VWX
FRPSUHKHQVLYH H[DPLQDWLRQ ZULWWHQ DQG RUDO IRU 3K' VW
WKH VHFRQG \HDU 7KH SXUSRVH RI WKH H[DPLQDWLRQ LV WR GH
WR XQGHUWDNH WKH SURSRVHG GLVVHUWDWLRQ UHVHDUFK 7KH
FRPSOHWHG EHIRUH WKH PDMRULW\ RI WKH UHVHDUFK LV FRQGX
FDQGLGDF\ XQWLO WKH H[DP LV VXFFHVVIXOO\ FRPSOHWHG (DF
ZULWWHQ IRU KLP RU KHU E\ WKH PHPEHUV RI WKH JUDGXDWH DG
DUHDV WR EH FRYHUHG LQ WKH H[DPLQDWLRQ VKRXOG EH GLVFX
DUHDV VKRXOG EH QRWHG LQ WKH *UDGXDWH 6WXG\ 3ODQ 2IWH
JUDGXDWH FRXUVHV WR KHOS SUHSDUH IRU WKH H[DPLQDWLRQ
PHPEHUV   PRQWKV EHIRUH WKH H[DPLQDWLRQ LV SODQQHG DO
FRYHUHG 6WXGHQWV W\SLFDOO\ VFKHGXOH LQGLYLGXDO PHHWL
VWUDWHJLHV IRU SUHSDULQJ IRU WKH H[DP DQG RU REWDLQ UHQ
FRQVLVWV RI D ZULWWHQ SRUWLRQ DQG DQ RUDO SRUWLRQ (DF
TXHVWLRQ RU VHULHV RI TXHVWLRQV WKDW JHQHUDOO\ UHTXLUH
PLQLPXP RI ILYH GD\V WR FRPSOHWH WKH ZULWWHQ H[DP IRU D
6HFWLRQV RI WKH ZULWWHQ H[DP GR QRW KDYH WR EH FRPSOHWH
LGHDOO\ RFFXU ZLWKLQ D   ZHHN WLPH IUDPH $IWHU WKH FRPPL
ZULWWHQ H[DP QRUPDOO\ ZLWKLQ RQH WR WKUHH ZHHNV   D FOR
RUDO H[DPV 0867 LQFOXGH DQ RXWVLGH H[DPLQHU$Q DSSRLQWHG E
DSSOLFDWLRQ XDI HGX JUDGVFKRRO IRUUWKH RXWVLGHH[DPLE
D 3K' RUDO H[DPLQDWLRQ\0867 EH'PDWRGWKH *UDGXDWH 6FKRRO
GD\V EHIRUH WKH VFKHGXOHG RUDO H[DP

UHVHDUFK DQG DSSURDFK PHWKRGV DQG PD\ LQFOXGH SUHOLP
WKH SUHVHQWDWLRQ WKH DXGLHQFH ZLOO KDYH WKH RSSRUWXQ
DUHD RI UHVHDUFK a   PLQXWHV)DFXOW\ PHPEHUV SUHVHQW
IRUP ZLWK DQ\ FRQFHUQV DERXW WKH SURSRVHG UHVHDUFK 06
UHVHDUFK LV RQ WUDFN 3K' 2FHDQRJUDSK\ VWXGHQWV 7KHUH
FRPPLWWHH ZLOO FRQYH\ DQ\ DUHDV RI ZHDNQHVV WR WKH VWX
PHPEHUV RI WKH 2FHDQRJUDSK\ WHQXUH WUDFN L H WHDFKLQ
SXEOLF SURSRVDO GHIHQVH EDUULQJ DQ\ XQDYRLGDEOH VFKH

5HSRUW RQ ([DPLQDWLRQ)RUP IRU 06 2FHDQRJUDSK\ VWXGHQ
$IWHU WKH FRPSOHWLRQ RI DQ\ SURSRVDO GHIHQVH DQG FRXUV
([DPLQDWLRQ´ VLJQHG E\ \RXU FRPPLWWHH FKDLU FRPPLWWHH
WKH 'HDQ DQG LI UHTXLUHG WKH RXWVLGH H[DPLQHU 7KH VWX
ILOLQJ WKLV IRUP 7KH ³5HSRUW RQ ([DPLQDWLRQ´ IRUP FDQ EH
ZHEVLWH XQGHU ³IRUPV´ 6WXGHQWV FDQQRW DGYDQFH WR FDQG
SUHVHQWDWLRQ LV VXFFHVVIXOO\ FRPSOHWHG DQG H[DPLQDWLR

&RPSUHKHQVLYH H[DPLQDWLRQV IRU 3K ' 6WXGHQWV

7KH 2FHDQRJUDSK\ 'HSDUWPHQW UHTXLUHV D SURSRVDO SUHVHQ
2FHDQRJUDSK\ VWXGHQWV ³SXEOLF SUHVHQWDWLRQ´ VHFWLRQ R
VWXGHQW QHDU WKH VWDUW RI WKHLU VHFRQG \HDU DQG D TXD
QRUPDOO\ WDNHQ QHDU WKH HQG RI WKH VHFRQG \HDU 7KH SXU
H[DPLQDWLRQ LV WR GHPRQVWUDWH WKDW WKH VWXGHQW LV UH
IRU KLV RU KHU GLVVHUWDWLRQ LW LV WKH LPSRUWDQW ERWK DUH VXFFHVVIXOO\ FR
EHIRUH PDMRU SRUWLRQV RI WKH6WXGHQW DQFK DQG QRW FRPSOHWHG V
FDQGLGDF\ XQWLO WKH H[DP LV VXFFHVVIXOO\ FRPSOHWHG (DF

ZDV ERWK ULJRURXV DQG IDLU 7KH VWDQGDUG IRU D ³3DVV´ LV
VWXGHQW¶V UHVSRQVH WKLQNV WKDW WKH VWXGHQW KDV WKH
FRPSOHWH WKHLU GLVVHUWDWLRQ UHVHDUFK 7KH VWDQGDUG IR
FRPPLWWHH EDVHG RQ WKH VWXGHQW¶V UHVSRQVH WKLQNV W
NQRZOHGJH QHFHVVDU\ WR VXFFHVVIXOO\ FRPSOHWH WKHLU GLV
RQH RU PRUH DUHDV RI GHILFLHQF\ 7KH FRPPLWWHH ZLOO VSHF
GHILFLHQFLHV 7KH FRQGLWLRQV FDQ LQFOXGH VDWLVIDFWRU\ D
TXHVWLRQV WR EH DWWHPSWHG DIWHU DQ DGGLWLRQDO SULR
WDNH DQ DGGLWLRQDO FRXUVH 7KH FRQGLWLRQV PXVW EH PHW
DQG H[FHSW XQGHU XQXVXDO FLUFXPVWDQFHV ZKLFK VKRXOG E
'HSDUWPHQW &KDLU DQG WKH FKDLU RI WKH H[DP FRPPLWWHH V
VHPHVWHU RI WKH H[DP GDWH ,I DIWHU RQH VHPHVWHU WKH V
SURJUHVV WRZDUG FRPSOHWLQJ WKH FRQGLWLRQV DQG GRHV Q
GHOD\ WKH H[DP FRPPLWWHH FDQ FKDQJH WKH H[DP JUDGH WR ³
QRW WKLQN WKDW WKH VWXGHQW¶V SHUIRUPDQFH GHPRQVWUDW
FRPSOHWH WKH GLVVHUWDWLRQ UHVHDUFK WKH H[DP ZLOO EH J

5HSRUW RQ ([DPLQDWLRQ)RUP IRU 3K ' VWXGHQWV
$IWHU WKH FRPSOHWLRQ RI DQ\ H[DPLQDWLRQ H J FRPSUHKHQ
VWXGHQW PXVW VXEPLW D ³5HSRUW RQ ([DPLQDWLRQ´ VLJQHG E
PHPEHUV WKH 'HSDUWPHQW &KDLU DQG WKH 'HDQ DQG LI UHTX
VWXGHQW DQG RU DGYLVRU LV UHVSRQVLEOH IRU ILOLQJ WKLV I
*UDGXDWH 6FKRRO ZHEVLWH XQGHU ³)RUPV´

5H WDNLQJ W6KWX(GHRQWV IDLOLQJ WKKDHP([RPSWSLWRLHRQ DUHVYLHHQWLWOHG
UHWDNH 6WXGHQWV LQ WKLV VLWXDWLRQ DUH VWURQJO\ HQFRX
WR JHW D GHWDLOHG HYDOXDWLRQ RI WKH SUREOHPV ZLWK WKH
RQ WKH QH[W DWWHPSW ,Q WKH FDVH RI WZR IDLOXUHV WKH VW
WKLUG WLPH ZLWKLQ GD\V DIWHU EHLQJ QRWLILHG RI WKH IDL

” ,W LV WKH VWXGHQW¶V UHVSRQVLELOLWQ WR WLOLGH H[DPLQH

,Q WKH FDVH RI D GLVVHUWDWLRQ GHIHQVH \RX PXVW VXSSO\ W
GLVVHUWDWLRQ DW OHDVW RQH ZHHN EHIRUH WKH GHIHQVH 7KH
RQ ([DPLQDWLRQ IRUP EXW QRW WKH $SSURYDO RI WKH 'LVVHUW

7KH $SSHDO RI D)DLOXUH RI WKH 'HIHQVH

)DLOXUH RI WKH WKHVLV RU GLVVHUWDWLRQ GHIHQVH LV XQFRP
H[DPLQDWLRQV DUH YLUWXDOO\ LPSRVVLEOH WR HYDOXDWH LQ U
DUH XQOLNHO\ WR EH VXFFHVVIXO +RZHYHU WKH VWXGHQW FDQ
WKURXJK WKH 8QLYHUVLW\ RU DFDGHPLF DSSHDOV

5HSRUW RQ ([DPLQDWLRQ)RUP

$IWHU WKH FRPSOHWLRQ RI DQ\ H[DPLQDWLRQ L H SURSRVDO
WKHVLV RU GLVVHUWDWLRQ GHIHQVH WKH VWXGHQW PXVW VXE
\RXU FRPPLWWHH FKDLU FRPPLWWHH PHPEHUV WKH 'HSDUWPHQ
$FDGHPLF 3URJUDPV DQG LI UHTXLUHG WKH RXWVLGH H[DPLQHU
LQLWLDWH WKH 5HSRUW RI ([DPLQDWLRQ IRUP KRZHYHU LQ VRP
WKH VWXGHQW WR VWDUW WKH IRUP* UWKHX DRWUH LV KR DODWHG VRZ

06 *HQHUDO 5HTXLUHPHQWV

7KH PLQLPXP UHTXLUHPHQWV IRU D PDVWHU¶V GHJUHH DW 8$) D PD\ KDYH DGGLWLRQDO UHTXLUHPHQWV

> ” 6WHSV 5HTXLUHG IRU $OO 0DVWHU¶V 'HJUHHV H[FOXGHV DQG 003 GHJUHHV
>)RUPXODWH D XQLILHG GHJUHH SURJUDP LQ FRRSHUDWL
> DGYLVRU\ FRPPLWWHH 'HJUHH SURJUDPV PXVW EH FRPS
> GLVFLSOLQH RU FOHDUO\ UHODWHG WR DQG RU VXSSRUW
> DSSOLHG WRZDUG WKH GHJUHH PXVW EH DSSURYHG E\ W
> WKH UHTXLUHPHQWV VHW IRUWK E\ WKH GHSDUWPHQW W
> 0DVWHU¶V GHJUHH VWXGHQWV PXVW
> 0HHW DOO UHTXLUHPH*HQHUDO UHTXLUHPHQWV 8QLYHUVLW\ LQ WKH
> 5HTXLUHPHQWV VHFWLRQ

  E 6XEPLW D 5HSRUW RI $GYLVRU\ &RPPLWWHH IRUP
   RI HYHU\ \HDU IRU VWXGHQWV VWDUWLQJ LQ WKH
   VHPHVWHU UHVSHFWLYHO\ HYHU\ \HDU
  F 6XEPLW DQ $GYDQFHPHQW WR &DQGLGDF\ IRUP W
   2QFH VXEPLWWHG WKLV IRUP IRUPDOO\ HVWDEOL
   UHTXLUHPHQWV
  G 5HJLVWHU DV QHFHVVDU\ DQG DSSO\ WR JUDGXDW
   QRWHG LQ WKH *UDGXDWLRQ VHFWLRQ
  H &RPSOHWH DOO GHJUHH UHTXLUHPHQWV ZLWKLQ
” &UHGLW 5HTXLUHPHQWV
 6XFFHVVIXOO\ FRPSOHWH D PLQLPXP RI VHPHVWHU FUH
 FUHGLWV PXVW EH DW WKH JUDGXDWH OHYHO LQFOXGL
 UHPDLQLQJ FUHGLWV PD\ EH DSSOLHG IURP FRXUVHV DW
 1R)   )   )   RU)   OHYHO FUHGLWV RU DXGLWHG
 WRZDUG PDVWHU¶V GHJUHH UHTXLUHPHQWV
)RU SURJUDPV UHTXLULQJ D WKHVLV D PD[LPXP RI   FUH
  ZLWK D PLQLPXP RI   FUHGLWV RI WKHVLV PD\ EH D
 UHTXLUHPHQWV)RU SURJUDPV UHTXLULQJ D SURMHFW
 FUHGLWV PD\ EH DSSOLHG WRZDUG GHJUHH UHTXLUHPHQ
 PDQ\ WKHVLV DQG RU UHVHDUFK FUHGLWV DV QHHGHG W
 003 DQG 006 VWXGHQWV PXVW FRPSOHWH D PLQLPXP RI
 OHDV   VHPHVWHU FUHGLWV PXVW EH DW WKH   OHYH
” 6HFRQG 0DVWHU¶V 'HJUHH 3URJUDPV
 $W WKH GLVFUHWLRQ RI WKH VWXGHQW V DGYLVRU\ FRPPL
 GHDQ WKH VWXGHQW PD\ WUDQVIHU XS WR   RI WKH PLQ
 IRU D 8$) PDVWHU¶V GHJUHH IURP D SUHYLRXVO\ HDUQHG
 FUHGLW PD\ QRW EH UHVHDUFK SURMHFW RU WKHVLV FUH
 FRPSOHWHG JUDGXDWH OHYHO FRXUVHV DQG QRW IRU SURU
 PDVWHU¶V GHJUHH IRU H[DPSOH XS WR   JUDGXDWH FUH
  FUHGL PDVWHU¶V GHJUHH XS WR   JUDGXDWH FUHGLW
 UHTXLUHPHQWV DSSO\ WR VWXGHQWV ZKR ZLVK WR SXUVX
  6XEPLW D QHZ DSSOLFDWLRQ LQFOXGLQJ WKH DSS
  XSGDWHG WUDQVFULSWV DQG WKUHH QHZ UHIHUHQ
  $FFHSWDEOH *5(VFRUHV VXEPLWWHG SUHYLRXVO\
  VHFRQG PDVWHU¶V GHJUHH
)XOILOO DOO JHQHUDO XQLYHUVLW\ UHTXLUHPHQW
  GHJUHH LQFOXGLQJ WDNLQJ D FRPSUHKHQVLYH H[
  D PLQLPXP RI   VHPHVWHU FUHGLW LQFOXGLQJ V
  WUDQVIHU FUHGLW DQG SDVVLQJ GHIHQVH RI WK
  $OO ZRUN XVHG WR IXOILOO GHJUHH UHTXLUHPHQW
  PXVW EH FRPSOHWHG ZLWKLQ VHYHQ \HDUV
” ([FHSWLRQV WR 'HJUHH 5HTXLUHPHQWV
 'HYLDWLRQV IURP DFDGHPLF UHTXLUHPHQWV DQG UHJXOD
 EH DSSURYHG E\ DFDGHPLF SHWLWLRQ XVLQJ WKH IRUP DY
 ZHEVLWH 0p°UGHQWàH 2s]SDS]PPEV E@ñx™V GHJUHH

67$7)   ²5HJUHVVLRQ DQG $QDO\VLV RI 9DULDQFH *UDGXDWH VHPLQDUV

D^ D Œ]v]}o}PÇ

&RPSOHWH WKH JHQHUDO XQLYHUVLW\ UHTXLUHPHQWV SOHDV

&RPSOHWH WKH PDVWHU¶V GHJUHH UHTXLUHPHQWV SOHDV U

&RPSOHWH D WKHVLV

&RPSOHWH WKH IROORZLQJ

0%,) 0DULQH %LRORJ\   FUHGLWV

0%,) 3K\VLRORJ\ RI 0DULQH 2UJDQLVPV   FUHGLWV

2&1) %LRORJLFDO 2FHDQRJUDSK\   FUHGLWV

)LHOG &RXUVH ZLWK $TXDWLF 6FLHQFH)RFXV

(OHFWLYHV LQ $TXDWLF 6FLHQFHV DW   OHYHO

0LQLPXP FUHGLWV UHTXLUHG   FUHGLWV

6WXGHQWV PXVW KDYH D % RU EHWWHU JUDGH LQ WKH FRUH FRXUVHV RI WKH GHJUHH
H[DP

([DPSOHV LQFOXGH 0%,)   0%,)   0%,)   0%,)

([DPSOHV LQFOXGH EXW DUH QRW OLPLWHG WR 0%,)   0%,)   0%,)   0%,)   0%,
6XFFHVVIXOO\ FRPSOHWH D PLQLPXP RI ILYH WKUHVPHVWHU FUHGLWV PXVW EH DW V
WKHVLV DQG UHVHDUFK 7KH UHPDLQLQJ FUHGLWV PD\ EH DSSOLHG IURP FRXUVHV DW WK

D^ K v}PŒ ‰ZÇ

&RPSOHWH WKH JHQHUDO XQLYHUVLW\ UHTXLUHPHQWV SOH

&RPSOHWH WKH PDVWHU¶V GHJUHH UHTXLUHPHQWV SOHDVH

&RPSOHWH D WKHVLV

&RPSOHWH RI WKH IROORZLQJ FRQFHQWUDWLRQV

)25 %2/2*,&$/ &(0,&$/ *2/2*,&$/ 3<6,&$/ 2&($12*5$3+ &21(175$7,216

D &RPSOHWH WKH IROORZLQJ

2&1) 3K\VLFDO 2FHDQRJUDSK\   FUHGLWV

2&1) *HRORJLFDO 2FHDQRJUDSK\   FUHGLWV

2&1) %LRORJLFDO 2FHDQRJUDSK\   FUHGLWV

2&1) &KHPLFDO 2FHDQRJUDSK\   FUHGLWV

2&1) ,QWH0

6WXGHQWV PXVW KDYH D % RU EHWWHU JUDGH LQ WKH FRUH FRXUVHV RI WK
FRPSUHKHQVLYH H[DP

0LQLPXP FUHGLWV UHTXLUHG   FUHGLWV

)25),6+(5,((2&($12*5$3+&21&(175$7,21

D &RPSOHWH WKH IROORZLQJ

2&1)   3K\VLFDO 2FHDQRJUDSK\   FUHGLWV

2&1)   *HRORJLFDO 2FHDQRJUDSK\   FUHGLWV

2&1)   )LVKHULHV 2FHDQRJUDSK\   FUHGLWV

2&1)   %LRORJLFDO 2FHDQRJUDSK\   FUHGLWV

2&1)   &KHPLFDO 2FHDQRJUDSK\   FUHGLWV

2&1)   ,QWHJUDWLYH 2FHDQRJUDSK\   FUHGLWV

2&1)   7KHVLV   FUHGLWV

(OHFWLYHV DSSURSULDWH WR DUHD RI FRQFHQWUDWLRQ

0LQLPXP FUHGLWV UHTXLUHG   FUHGLWV

6WXGHQWV PXVW KDYH D % RU EHWWHU JUDGH LQ WKH FRUH FRXUVHV RI WKH GHJUHH
H[DP

6XFFHVVIXOO\ FRPSOHWH D PLQLPXP RI VHPHVWHU FUHGLWV RI ZKLFK   VHPHVWHU
LQFOXGLQJ WKHVLV DQG UHVHDUFK 7KH UHPDLQLQJ FUHGLWV PD\ EH DSSOLHG IURP FRX

0DVWHUV LQ 0DULQH 3ROLF\ 003 *HQHUDO 5HTXLU
7KLV SURJUDP LV MRLQWO\ RIIHUHG E\ 8$6 DQG 8$) ZLWK 8$) DF

J (OHFWLYHV   &RPSOHW   FUHGLWV RI HOHFWLYHV
$Q\ FRUH FODVV QRW XVHG WR VDWLVI\ WKH FRUH
UHTXLUHPHQW FDQ EH XVHG DV DQ HOHFW**Trip**LWV

Code		Course
$&16	)	,QWHUQDWLRQDO /DZ DQG WKH (QYLURQPH[
$&16	)	6FLHQFH 7HFKQRORJ\ DQG 3ROLWLFV
$&16	)	&RPSDUDWLYH ,QGLJHQRXV 5LJKWV DQG 3[
$&16	)	$UFWLF 3ROLWLFV DQG *RYHUQDQFH
%,2/	)	6FLHQWLILF :ULWLQJ (GLWLQJ DQG 5HYLV[
		6FLHQFHV
%,2/	)	%LRJHRJUDSK\
%,2/	)	3ODQW 3K\VLRORJ\ DQG 'HYHORSPHQW
%,2/	)	3RSXODWLRQ *HQHWLFV
%,2/	)	(QYLURQPHQWDO 0LFURELRORJ\
%,2/	)	9HUWHEUDWH 3DOHRQWRORJ\
),6+	)	,FKWK\RORJ\
),6+	)	&RPPXQLFDWLQJ 6FLHQFH WR WKH 3XEOLF
),6+	)	,QGLJHQRXV)LVKHULHV RI $ODVND
),6+	)	(VWLPDWLRQ RI)LVK $EXQGDQFH
),6+	)	3RSXODWLRQ '\QDPLFV RI 9HUWHEUDWHV
),6+	)	%HKDYLRUDO (FRORJ\ RI)LVKHV
),6+	)	3K\VLRORJLFDO (FRORJ\ RI)LVKHV
),6+	)	3DFLILF 6DOPRQ /LIH +LVWRULHV
),6+	)	(FRV\VWHP EDVHG)LVKHULHV 0DQDJHPHQW
),6+	)	%LRHFRQRPLF 0RGHOLQJ DQG)LVKHULHV 0[
),6+	)	$TXDWLF &RQVHUYDWLRQ DQG 0DQDJHPHQV[
),6+	)	)RXQGDWLRQV RI 0DULQH 3ROLF\ DQG 2FHD[
),6+	)	/DZ DQG)LVKHULHV
),6+	)	,QWHUQDWLRQDO 0DULWLPH /DZ DQG ,88)L[
),6+	)	(FRQRPLF 'HYHORSPHQW IRU)LVK GHSHQG[
),6+	)	3ROLWLFDO (FRORJ\
-285	)	$GYDQFHG 'LJLWDO 3KRWRJUDSK\ 3RUWIRO[
-285	)	'RFXPHQWDU\ )LOPPDNLQJ
-285	)	3XEOLF 5HODWLRQV DQG 3XEOLF ,QIRUPDW[
0%,	)	0DULQH %LUG (FRORJ\ DQG &RQVHUYDWLRQ[
0%,	)	+XPDQ ,PSDFWV WR WKH 0DULQH %LRVSKHU[
0%,	)	&RQWURYHUVLHV LQ 0DULQH 6FLHQFH
0%,	)	(DUO\ /LIH +LVWRULHV RI 0DULQH ,QYHUWH[
0%,	)	%LRORJ\ RI 0DULQH 0DPPDOV
0%,	)	1HDUVKRUH (FRORJ\ )LHOG &RXUVH
0%,	)	0DULQH %LRORJ\ DQG (FRORJ\ )LHOG &RXUV[
0%,	)	0DULQH (FRV\VWHPV
0%,	)	%HQWKLF (FRORJ\
0%,	)	.HOS)RUHVW (FRORJ\
0%,	)	6WDEOH ,VRWRSH 7HFKQLTXHV LQ (QYLURQ[
0%,	)	(FRORJ\ DQG 3K\VLRORJ\ RI 0DULQH 0DFUR[
0%,	)	$TXDWLF)RRG :HE (FRORJ\
150	)	(QYLURQPHQWDO /DZ
150	)	5HVRXUFH 0DQDJHPHQW 3ODQQLQJ
150	)	*,6 $QDO\VLV
150	)	*,6 3URJUDPPLQJ

*UDGXDWH VWXGHQW H[SHFWDWLRQV

([SHFWDWLRQ 'RFXPHQWV

$ GRFXPHQW WR FRPPXQLFDWH H[SHFWDWLRQV IRU JUDGXDWH V
'HSDUWPHQW LV ORFDWHG RQ WKH &)26 $FDGHPLF RXUEULWH XQG
WKH 0DULQH %LRORJ\ JUDGXDWH SURJUDP SOHDVH UHYLHZ WKH
RU FRQFHUQV ZLWK \RXU IDFXOW\ DGYLVRU 3OHDVH QRWH WKDW
PD\ GHYLDWH VOLJKWO\ IURP WKLV GRFXPHQW 7KLV GRFXPHQW
WKH EDVLV RI GLVFXVVLRQV EHWZHHQ VWXGHQWV DQG WKHLU D
\RX KDYH WKHP

2FHDQRJUDSK\ DQG)LVKHULHV GHSDUWPHQWV KDYH DGYLVRU V.
KDYH QRW EHHQ SURYLGHG ZLWK RQH SOHDVH FRQWDFW \RXU D
DQG VWXGHQWV DUH H[SHFWHG WR UHDG WKH &)26 DQG 8$) *UDG
WKH FRQWHQWV

5HVHDUFK DQG 7HDFKLQJ $VVLVWDQWVKLSV 5$ 7$

6WXGHQWV DUH DZDUGHG DVVLVWDQWVKLSV WR KHOS VXSSRUW
DFDGHPLF JRDOV DQG HDUQ WKHLU GHJUHH :KLOH WKH DVVLVW
SXUVXLW LV D SHUVRQDO DQG SURIHVVLRQDO GHYHORSPHQW DQ
7HDFKLQJ $VVLVWDQWVKLSV DUH SDLG E\ ZHHNO\ VDODU\ 7KRVH
ZKLOH RQ D 5$ 7$ PXVW FOHDU WLPH RII ZLWK WKHLU IDFXOW\ D
IRU WKH FRXUVH WKH\ DUH DVVLJQHG WR 5HVHDUFK DQG 7HDFK
SRVLWLRQV DQG WKH IXQGLQJ DJHQF\ DGYLVRU KDV WKH ULJKW
WKH VWXGHQW¶V DFDGHPLF FDUHHU

7KHVLV FUHGLWV

%DVHG RQ 8$) *UDGXDWH 6FKRRO SROLF\ WKH H[SHFWDWLRQ IRU
FRPSOHWH D PLQLPXP RI IRXU KRXUV D ZHHN WRZDUGV ZRUNLQJ
SHU WKHVLV FUHGLW WKDW WKH\ HQUROOHG IRU WKDW VHPHVWH
UHJLVWHUV IRU QLQH FUHGLWV RI),6+ 2&1 RU 0%,   WKHQ WK
RI KRXUV RI ZRUN SHU ZHHN RQ WKHLU WKHVLV UHVHDUFK H.J
SURFHVVLQJ DQG RU H[SHULPHQWDWLRQ DQG RU PRGHOLQJ GD
RQ D UHVHDUFK RU WHDFKLQJ DVVLVWDQWVKLS WKHVH WKHVLV
KRXUV RI ZRUN DVVRFLDWHG ZLWK WKDW DVVLVWDQWVKLS

,QWHUQDWLRQDO 6WXGHQWV   7KHVLV &RXUVH FUHGLV

7KH 'HSDUWPHQW RI +RPHODQG 6HFXULW\ YLHZV LQWHUQDWLRQI
DQG UHTXLUHV VWXGHQWV WR FRPSOHWH WKHLU SURJUDP H[SHO
WR HQUROO IXOO WLPH DW FUHGLV D VHPHVWHU 7KLV HQVXU
DQG FDQ PDNH WLPHO\ SURJUHVV WR WKHLU GHJUHHV)RU PRUH
SOHDVH UHYLHZ)YLHEZ DWROH,QWHUQDWLRQDO 6WXGHQW

*XLGHOLQHV IRU 3UHSDUDWLRQ RI WKH 7KHVLV 'LV
)LVKHULHV 0DULQH %LRORJ\ DQG 2FHDQRJUDSK\

127(7+(5($5(63(&,),& ,16758&7,216)25),6+(5,(6 678'(176 $7 7+((1' 2) 7+,6 6(&7,21

%H VXUH WR DWWHQG WKH WKHVLV SUHSDUDWLRQ ZRUNVK[...] 6FKRRO HYHU\ VHPHVWHU

:ULWLQJ

6WXGHQWV DUH XUJHG WR SULQW RXW DQG FDUHIXOO\ UHDG WK[...] DYDLODEOH DW WKH *UDGXDWH 6FKRRO ZHEVLWH

KWWSV ZZZ XDI HGX JUDGVFKRRO FXUUHQW VWXGHQWV UHDG\ [...] J SKS

%()25(EHJLQQLQJ WR ZULWH 0DQ\ DVSHFWV RI WKH UHTXLUHG I[...] WKH GRFXPHQW LV ZULWWHQ EXW GLIILFXOW DQG WLPH FRQVXP[...] GRQH 7KH VWXGHQW VKRXOG UHDFK DQ DJUHHPHQW ZLWK WKHL[...] ZKHWKHU WKH WKHVLV RU GLVVHUWDWLRQ ZLOO EH ZULWWHQ L[...] UHDG\ IRU VXEPLVVLRQ WR D SURIHVVLRQDO MRXUQDO RU LQ V[...]

3URSRVDOV 7KDW :RUN $ *XLGH IRU 3ODQQLQJ 'LVVHUWDWLRQV
/DZUHQFH) /RFNH $XWKRU HW DO $PD]RQ ,6%1

7KH (OHPHQWV RI 6W\OH E\ :LOOLDP-6WUXQGN % :KLWH $PD]RQ
,6%1

+RZ 7R :ULWH 3XEOLVK D 6FLHQWLI5R3HDSWU$ WDK (GXWWKLRRUO $P
,6%1

6WXGHQWV ZKR KDYH GLIILFXOW\ ZULWLQJ RU IRU ZKRP (QJOLVK
8$) :ULWLQJK&HOOSSWXHU +RZHYHU WKHRFXVHWLPDLQ&OHQWRQ\UH UZULWLQJ IR
XQGHUJUDGXDWHV DQG GRHV QRW KDYH WKH UHVRXUFH WR HG
VFLHQWLILF NQRZOHGJH QHFHVVDU\ IRU VRPH DVSHFWV RI HGLW
VSHFLILF SUREOHPV KRZHYHU DQG DUH ZRUWK D WU\ 6WXGHQW
RU ZHDN VNLOOV LQ (QJOLVK VKRXOG SODQ WR WDNH H[SRVLW
/DQJXDJH FRXUVHV RU SXUVXH RWKHU VWUDWHJLHV WR LPSURY

6RPH VXJJHVWHG FRXUVHV WKDW PD\ EH EHQHILFLDO WR \RXU S
WKHVLV GLVVHUWDWLRQ

QRW DOO VWXGHQWV DUH DEOH RU ZLOOLQJ WR SURYLGH VXFK [
WR GR VR 1RWH WKDW VXFK HGLWRULDO DVVLVWDQWV FDQ FRU
QRW EH H[SHFWHG WR H[WHQV,LWLV\SUHPDULPLUOLH\WKHPDWXGHLQW¶V
ZULWH WKH WKHVLV RU GLVVHUWDWLRQ LQ DFFHSWDEOH (QJOLV
PDNH WKDW LPSRVVLEOH WKH VWXGHQW PXVW LPSURYH WKRVH

5HYLHZ DQG UHYLVLRQ

1RUPDOO\ WKH VWXGHQW ZLOO VXEPLW HDFK FKDSWHU RI WKH
WKHLU DGYLVRU\ FRPPLWWHH FKDLU 6RPH FRPPLWWHH FKDLUV
WKHVLV GUDIW EHIRUH EHJLQQLQJ UHYLHZ 6WXGHQWV VKRXOG
WKH\ EHJLQ WR ZULWH DQG WKLV LV DOVR D JRRG WLPH WR ILQ
RWKHU REOLJDWLRQV WKDW FRXOG DIIHFW KRZ ORQJ LW WDNHV
FRPPLWWHH PHPEHUV PD\ RU PD\ QRW UHDG WKH ILUVW GUDIW F

*HQHUDOO\ PXOWLSOH GUDIWV DQG HGLWRULDO H[FKDQJHV ZLW
FKDSWHU E\ FKDSWHU RU DV D FRPSOHWH WKHVLV RU GLVVHUW
URXQGV RI FRUUHFWLRQV DQG \RXU DGYLVRU FRPPLWWHH FKDL
GRFXPHQW ZLOO EH UHDG\ IRU VXEPLVVLRQ DQG UHYLHZ E\ WKH
IHHGEDFN IXUWKHU GUDIWV PD\ EH UHTXLUHG

5DUHO\ D VWXGHQW ZLOO WKLQN WKDW KLV RU KHU WKHVLV RU
FRPPLWWHH FKDLU DQG RU FRPPLWWHH PHPEHUV WKLQN WKDW L
FRPPLWWHH PHPEHUV¶ UHTXLUHPHQWV IRU DGGLWLRQDO UHYLVL
LQWHUHVW .HHS LQ PLQG WKDW WKH FRPPLWWHH LV WU\LQJ WR
RI D VXFFHVVIXO GHIHQVH 2FFDVLRQDOO\ D PDMRULW\ RI FRPP
GLVVHUWDWLRQ ®\HUH-DG€IRUWW%L)HQVH EXW D VLQJOH FRPPLWWZ
VWXGHQW DQG KLV RU KHU PDMRU DGYLVRU VKRXOG DVN WKH 'H
DGYLFH

$IWHU SRVW GHIHQVH FRUUHFWLRQV DUH FRPSOHWHG DQG WKH

" $OO VWXGHQWV ZRUNLQJ ZLWK YHUWHEUDWHV KXPDQ VXEM
ZLWK 8$) SROLFLHV DQG DFTXLUH WKH DSSURSULDWH SHUPL
LQIRUPDWLRQ FRQWDFW 5HVHDUFK ,QWHJULW\

%\ WKH HQG RI \RXU ILUVW \HDU
" 0HHW ZLWK \RXU PDMRU DGYLVRU WR HQVXUH WKDW \RX W
:KDW LV WKH SUREOHP \RX DUH DGGUHVVLQJ" 7KH K\SRWKHV
DSSURDFKHV DQG PHWKRGV \RX DUH XVLQJ" $Q\ VLJQLILFDQ
" &KRRVH \RXU FRPPLWWHH PHPEHUV SOXV RQH RU WZR DOW
FDQQRW VHUYH
" &RQWDFW \RXU FKRLFHV DQG DVN WKHP LI WKH\ DUH ZLOOL
FRPPLWWHH
" &RPSOHWH DQG VXEPLW PWHQW RI *UDGRPLWWHH$GYLRU E\
" 6FKHGXOH D PHHWLQJ ZLWK \RXU FRPPLWWHH 3UHSDUH D G
FRQVXOWDWLRQ ZLWK \RXU PDMRU DGYLVRU EHIRUH WKH PH
" $W WKH PHHWLQJ *63DLQVGLVFXXVUWKHDDUF&RPSOHWWDQ
3URJUHVVIRUPSRUW
" 5HYLVH *63 DV QHHGHG EDVHG RQ FRPPLWWHH LQSXW 6XEP
6FKRRO ZHEVLWH

7KH IROORZLQJ IRUPV VKRXOG EH VXEPLWWHG QR ODWHU WK
\RX ZLOO EH VXEPLWWLQJ WKH IRUPV ODWH \RX ZLOO QHHG
([WHQVLRQ WR VXEPLW ODWH IRUPV /LQN
    " *63 DQG SURSRVDO
    " $SSRLQWPHQW RI &RPPLWWHH
    " $QQXDO 5HSRUW
)RUPV QRW VXEPLWWHG LQ WLPH FRXOG UHVXOW LQ VWXGHQ
VWDQGLQJ´ WR ³RXW RI VWDWXV´ ,I \RX VWDUW LQ WKH VSU
HQG RI WKH IDOO VHPHVHU WR VXEPLW IRUPV

'XULQJ \RXU VHFRQG RU WKLUG VHPHVHU
" &RPSOHWH UHTXLUHG FRXUVHV
" 6FKHGXOH \RXU FRPSUHKHQVLYH H[DPLQDWLRQ SURSRVDO G
" &RQWLQXH WR PHHW IUHTXHQWO\ ZLWK \RXU PDMRU DGYLVR
IXWXUH JRDOV IRU \RXU UHVHDUFK
" 0HHW ZLWK FRPPLWWHH PHPEHUV DV QHHGHG IRU DGGLWLRQ
" &RQGXFW ILHOG RU ODERUDWRU\ UHVHDUFK RU GDWD DQDO\
SURMHFW

%\ WKH HQG RI \RXU VHFRQG \HDU
" 3DVV \RXU FRPSUHKHQVLYH H[DPLQDWLRQ SURSRVDO GHIHQ
")LO5HSRUW RI &RPSUHKHQVLYH ([DP IRUP
")LOHQQDQFHPHQW WR &DQGLGDF\ IRUP
" &RQGXFW ILHOG RU ODERUDWRU\ UHVHDUFK RU GDWD DQDO\
SURMHFW
" &RQWLQXH WR PHHW IUHTXHQWO\ ZLWK \RXU PDMRU DGYLVR
VRPH DVSHFWV RI \RXU UHVHDUFK DUH VWLOO LQ SURJUHVV
" 6FKHGXOH D PHHWLQJ ZLWK \RXU DGYLVRU\ FRPPLWWHH

7KH IROORZLQJ IRUPV VKRXOG EH VXEPLWWHG QR ODWHU WK
\RX ZLOO EH VXEPLWWLQJ WKH IRUPV ODWH \RX ZLOO QHHG

- $QQXDO 5HSRUW
- 5HSRUW RI ([DPLQDWLRQ)RUP LI FRPSOHWHG FRPSUHK
  GHIHQVH
- $GYDQFHPHQW WR &DQGLGDF\ LI 5HSRUW RI ([DPLQDWL
  VXEPLWWHG

)LIWK VHPHVWHU
- 7LH XS DQ\ ORRVH HQGV LQ \RXU UHVHDUFK DQG GDWD DQDO
-)LQLVK ZULWLQJ \RXU WKHVLV FRQIHUULQJ RIWHQ ZLWK \RX
- 6FKHGXOH \RXU 'HIHQVH
- 'HIHQG
  -)LOH \RXU 5HSRUW RI 'HIHQVH IRUP
  -)LOH \RXU WKHVLV $SSURYDO IRUP DGYLVRU FOHDUDQFH
    WKDW WKH WKHVLV LV UHDG\ IRU 'HSDUWPHQW &KDLU U
  -)LOO RXW GHSDUWPHQW H[LW VXUYH\

)XOO WLPH 3K' VWXGHQWV LQWHQGLQJ WR FRPSOHWH

%HIRUH WKH EHJLQQLQJ RI \RXU ILUVW VHPHVWHU
- &RQIHU ZLWK \RXU PDMRU DGYLVRU RU LQWHULP DGYLVRU W
  \RXU ILUVW DQG VHFRQG VHPHVWHUV
- ,I \RX KDYH D PDMRU DGYLVRU DQG D VSHFLILF UHVHDUFK D
  WR DFFRPSOLVK GXULQJ WKH ILUVW \HDU DQG VHW XS D U
  VXEMHFW WR UHYLVLRQ
- $VN \RXU PDMRU DGYLVRU IRU UHDGLQJ VXJJHVWLRQV UHOD
  UHDGLQJ DQG GLVFXVV LW ZLWK \RXU DGYLVRU
- ,I \RX KDYH DQ LQWHULP DGYLVRU DVN KLV RU KHU DGYLFH
  RQ IDFXOW\ PHPEHUV WR FRQWDFW UHODWLYH WR SRWHQWL
  WR DQ\ IDFXOW\ PHPEHU ZKRVH UHVHDUFK LQWHUHVWV \RX
- &RPSOHWH 8$) DQG &)26 VDIHW\ WUDLQLQJ 0867 EH FRPSOHW
  ODEV
- &RPSOHWH DQ\ UHTXLUHG WUDLQLQJ FKHFN ZLWK \RXU DGY

'XULQJ \RXU ILUVW \HDU
- 0HHW IUHTXHQWO\ D VKRUW PHHWLQJ DW OHDVW ELZHHNO\
  DGYLVRU WR GLVFXVV \RXU SURJUHVV LQ UHVHDUFK DQG FR
  GLIILFXOWLHV <RX VKRXOG UHILQH DQG UHYLVH \RXU UHVH
- ,I \RX KDYH DQ LQWHULP DGYLVRU WKHVH PHHWLQJV VKRXO
  D SURMHFW DQG PDMRU DGYLVRU DV ZHOO DV SURJUHVV LQ
- $SSO\ IRU IXQGLQJ LI \RX GR QRW KDYH IXQGLQJ WR VXSSRU
  WKH &26 VWXGHQW SDJH SHUWDLQLQJ WR IXQGLQJ WR LQWHULP DGYLVRU RU L
  DGYLVRU PD\ NQRZ RI DGGLWLRQDO RXWVLGH VRXUFHV DQ
  SUHSDUDWLRQ $OO VWXGHQWV VKRXOG DSSO\ IRU WKH 8QLYHUVLW\ )XQG GLVFLSOLQH
  6FKRODUV HYHU\ \HDU 2QH DSSOLFDWLRQ WKH 8QL FKRROHUV WLOOV \RX PD\
  HOLJLEOH WR EH DZDUGHG

" $W WKH HQG RI WKH ILUVW VHPHVWHU RU WKH EHJLQQLQJ R
FKDQJHV LQ \RXU FODVV VFKHGXOH QHHGHG GXH WR FRXUVH
WKH ILUVW VHPHVWHU FKDQJHV LQ \RXU LQWHUHVWV HWF
" %\ WKH EHJLQQLQJ RI WKH VHFRQG VHPHVWHU GLVFXVV SRV
\RXU PDMRU DGYLVRU RU LQWHULP DGYLVRU ,I \RX KDYH QR
FDQGLGDWHV DUUDQJH D PHHWLQJ WR WDON DERXW \RXU S
" &KRRVH \RXU FRPPLWWHH PHPEHUV SOXV RQH RU WZR DOW
FDQQRW VHUYH
" &RQWDFW \RXU FKRLFHV DQG DVN WKHP LI WKH\ DUH ZLOOLQ
FRPPLWWHH
" &RPSOHWH DQG VXEPLW WKH $SSRLQWPHQW RI *UDGXDWH DGYLVRU\
" 6FKHGXOH D PHHWLQJ ZLWK \RXU FRPPLWWHH SUHSDUH D G
FRQVXOWDWLRQ ZLWK \RXU PDMRU DGYLVRU EHIRUH WKH PH
" $OVR EHIRUH WKH PHHWLQJ PHHW ZLWK \RXU PDMRU DGYLV
LV IDLUO\ ZHOO RXWOLQHG :KDW LV WKH SUREOHP \RX DUH
WHVWHG" 7KH DSSURDFKHV DQG PHWKRGV \RX DUH XVLQJ" $
" $W WKH PHHWLQJ GLVFXVV WKH *63 SURSRVDO DQG UHHD
3URJUHVV 5HSRUW IRUP

7KH IROORZLQJ IRUPV VKRXOG EH VXEPLWWHG QR ODWHU W
\RX ZLOO EH VXEPLWWLQJ WKH IRUPV ODWH \RX ZLOO QHHG

7KH IROORZLQJ IRUPV VKRXOG EH VXEPLWWHG QR ODWHU W
\RX ZLOO EH VXEPLWWLQJ WKH IRUPV ODWH \RX ZLOO QHHG

” $QQXDO 5HSRUW

7KLUG \HDU
” 6FKHGXOH DQG SDVV \RXU TXDOLIL\LQJ H[DPLQDWLRQ ,I DQ
QRW IRU JHW WR UHTXHVW DQ RXWVLGH H[DPLQHU
”)LOH 5HSRUW RI &RPSUHKHQVLYH ([DP IRUP
”)LOH $WKH DQFHPHQW WR &DQGLGDF\ IRUP
,\RX DUH RQ D 5$ RU 7$ EH VXUH WR RUJDQL]DWW &)26 %HQ
WKHP WR ILOH DQ LQFUHDVH RI SD\ UDWH LW LV WKH V
&)26 $FDGHPLF 3URJUDPV
” &RQWLQXH WR PHHW IUHTXHQWO\ ZLWK \RXU PDMRU DGYLVR
IXWXUH JRDOV IRU \RXU UHVHDUFK
” &RQGXFW ILHOG RU ODERUDWRU\ UHVHDUFK RU GDWD DQDO\
SURMHFW
” 0HHW ZLWK FRPPLWWHH PHPEHUV DV QHHGHG IRU DGGLWLRQ
” 6FKHGXOH D PHHWLQJ ZLWK \RXU DGYLVRU\ FRPPLWWHH 5H
DVN IRU LQSXW RQ VWHSV QHHGHG IRU FRPSOHWLRQ RI \RXU

7KH IROORZLQJ IRUPV VKRXOG EH VXEPLWWHG QR ODWHU W
\RX ZLOO EH VXEPLWWLQJ WKH IRUPV ODWH \RX ZLOO QHHG

” $QQXDO 5HSRUW

)RXUWK \HDU
” &RQWLQXH WR PHHW IUHTXHQWO\ ZLWK \RXU PDMRU DGYLVR
IXWXUH JRDOV IRU \RXU UHVHDUFK
” 0HHW ZLWK FRPPLWWHH PHPEHUV DV QHHGHG IRU DGGLWLRQ
” &RQGXFW ILHOG RU ODERUDWRU\ UHVHDUFK RU GDWD DQDO\
SURMHFW
” %HJLQ ZULWLQJ LI SRVVLEOH 3UHSDUH D PDQXVFULSW IRU
SURJUHVVHG WR WKDW SRLQW :ULWH XS PHWKRGV LQWURG
QDWLRQDO RU LQWHUQDWLRQDO PHHWLQJ WR SUHVHQW VRP
” $SSO\ IRU D WKHVLV FRPSOHWLRQ IHOORZVKLS LI QHHGHG
” 6FKHGXOH D PHHWLQJ ZLWK \RXU DGYLVRU\ FRPPLWWHH 5H
DVN IRU LQSXW RQ VWHSV QHHGHG IRU FRPSOHWLRQ RI \RXU

7KH IROORZLQJ IRUPV VKRXOG EH VXEPLWWHG QR ODWHU W
\RX ZLOO EH VXEPLWWLQJ WKH IRUPV ODWH \RX ZLOO QHHG

” $QQXDO 5HSRUW

)LIWK \HDU

» 7LH XS DQ\ ORRVH HQGV LQ \RXU UHVHDUFK DQG GDWD DQDO

»)LQLVK ZULWLQJ \RXU GLVVHUWDWLRQ FRQIHUULQJ RIWHQ Z
6XEPLW PDQXVFULSWV IRU SXEOLFDWLRQ DV WKH\ DUH FRPS

» $WWHQG D QDWLRQDO RU LQWHUQDWLRQDO PHHWLQJ RU VH

» $SSO\ IRU SRVWGRFV RU RWKHU MREV DSSURSULDWH IRU \R

» $SSO\ IRU JUDGXDWLRQ

» 6FKHGXOH 'HIHQVH GR QRW IRUJHW WR UHTXHVW RXWVLGH

» 'HIHQG \RXU GLVVHUWDWLRQ
    »)LOH [SHD SRUW RI 'HIHQVH IRUP]
    »)LOH [$SSURYDO RI 'LVVH ZKHQ \RX DUH DGYLVR\ R]
       FOHDUDQFH \RXU GLVVHUWDWLRQ LV UHDG\ WR VXEPLW
    »)LOO RXW GHSDUWPHQW H[LW VXUYH\

» *UDGXDWH

),

*UDGXDWLRQ &KHFNOLVW

- ”)LOH $GYDQFHPHQW WR U &DQGLGDF\
- ” $SSO\ IRU *UDGXDWLRQ
- ” 6FKHGXOH D GHIHQVH GDWH DQG URRP FRQWDFW &)26 $FDG
- ” 3K' VWXGHQWV ZLOO QHHG WR UH H[DPLQH RU
- ” (PDLO WKH &)26 $FDGHPLF 3URJUDPV 2IILFH DQG 8$) *UDGXD

  - ” 7KHVLV 'LVVHUWDWLRQ WLWOH
  - ” $EVWUDFW
  - ” =RRP OLQN DQG SDVVZRUG
  - ” 3KRWRJUDSK IRU VRFLDO PHGLD SRVW
  - ” $Q\ DGGLWLRQDO LQIRUPDWLRQ WKDW \RX ZRXOG OLNH

- ” 'HIHQG WKHVLV GLVVHUWDWLRQ 'DWH BBBBBBBBBBB 7LPH
  BBBBBBBBBBBBBBBBBBB
- ” 0DNH WKH QHHGHG IDFXOW\ FRUUHFWLRQV WR WKHVLV GLVV
- ”)LOO RXW 7KHVLV 'LVVHUWDWLRQ $SSURYDO IRUP
- ” 7XUQ LQ WKHVLV GLVVHUWDWLRQ WR 'HSDUWPHQW &KDLU
- ” 0DNH QHHGHG 'HSDUWPHQW &KDLUV FRUUHFWLRQV
- ” 7XUQ LQ WKHVLV GLVVHUWDWLRQ WR 'HDQ WKLV PXVW JR W

$VVLVWDQWVKLSV DQG)LQDQFLDO $LG

*UDGXDWH $VVLVWDQWVKLSV

5HVHDUFK DQG WHDFKLQJ DVVLVWDQWVKLSV DUH DZDUGHG WR T
SURJUDP EDVHG RQ DYDLODELOLW\ &)26 VWXGHQWV DUH DZDUG
XVXDOO\ DW WKH WLPH WKH\ DUH DGPLWWHG LQWR WKHLU JUDG

*UDGXDWH DVVLVWDQWV FDQQRW EH SDLG IRU D PD[LPXP RI K
VHVVLRQ H[FHSWLRQV PD\ DSSO\ 6WXGHQWV ZLWK DVVLVWDQW
FUHGLWV GXULQJ WKH IDOO DQG VSULQJ VHPHVWHUV DXGLWHG
ZRUNORDG 127(,QWHUQDWLRQDO VWXGHQWV 0867 EH HQUROO

7HDFKLQJ DVVLVWDQWVKLSV LQFOXGH D WXLWLRQ SD\PHQW E\ W
GXULQJ HDFK VHPHVWHU LI WKH ZRUNORDG LV WR KRXUV SH
5HVHDUFK DVVLVWDQWVKLSV FDQ LQFOXGH D WXLWLRQ SD\PHQW
FUHGLWV SHU VHPHVWHU 1R WXLWLRQ ZLOO EH LQFOXGHG LI W

7XLWLRQ VXSSOHPHQWV PD\ EH XVHG IRU WXLWLRQ RQO\ *HQHU
DQG 5$V 6SHFLDO IHHV H J IRU D ILHOG FRXUVH DUH RIWHQ
WKH GHSDUWPHQW RU JUDQW PDNHV RWKHU DUUDQJHPHQWV ZLV
*UDGXDWH 6FKRRO EHIRUH UHJLVWUDWLRQ

$ JUDGXDWH VWXGHQW ZLWK D *3$ RI OHVV WKDQ IRU RQH VH
FRQWLQXH DV D JUDGXDWH DVVLVWDQW IRU WKH QH[W VHPHVH
EH DOORZHG SHU VWXGHQW 7KH VWXGHQW¶V DGYLVRU FRPPLW
PXVW DSSURYH WKH SHWLWLRQ E\ WKH VWXGHQW

5DWH RI 3D\ IRU &)26 *UDGXDWH 5HVHDUFK DQG 7HDFKL
$FDGHPLF <HDU

2024-2025 Rates	MS, MMS, MMP, (if funded)	PhD
Hourly Rate	$24.87	$29.00
Bi-weekly 20 hours	$994.80	$1160.00
Bi-weekly 40 hours	$1989.60	$2320.00

*$

)XQGLQJ 6RXUFHV $YDLODEOH IRU *UDGXDWH 6WXGHQW

$ YDULHW\ RI IXQGLQJ VRXUFHV DUH DYDLODEOH WR DVVLVW JU
HGXFDWLRQDO DQG UHVHDUFK JRDOV ZKLOH DW 8$) 7KHUH DUH

LV DZDUGHG DV D PRQWKO\ IHOORZVKLS SD\PHQW ,QFRPH WD[HV
IHOORZVKLSV VWXGHQWV UHFHLYLQJ WKH IHOORZVKLS PXVW SO
  ±   IRU WD[HV 7KH 5)5& ERDUG KDV WKH GLVFUHWLRQ WR FKD
GHSHQGLQJ RQ HQGRZPHQW HDUQLQJV 5))RU ZHE VLWH LQIRUPDWLRQ

3&&5& 3ROORFN &RQVHUYDWLRQ &RRSHUDWLYH 5HVHDUFK
:KHQ IXQGV DUH DYDLODEOH WKH 3&&5& DZDUGV JUDGXDWH VWX
SURVSHFWLYH 8$) JUDGXDWH VWXGHQWV ZKRVH UHVHDUFK DOLJ
DQQXDO 5HVHDUFK 5)3 7KH IHOORZVKLS LQFOXGHV D VWDQGDU
WXLWLRQ IHHV KHDOWK LQVXUDQFH DQG   WKDW FDQ EH DS
$ZDUGV DUH UHQHZDEOH SHQGLQJ VXFFHVVIXO DQQXDO SURJUH
PD[LPXP RI \HDUV RI VXSSRUW 3K' VWXGHQWV PD\ UHFHLYH D
3&&5& ZLOO VHQG RXW D FDOO IRU SURSRVDOV LI ZKHQ WKH\ GH
%DVHG RQ IXQGLQJ DYDLODELOLW\

/DGG 0DFDXOD\ 0HPRULDO 6FKRODUVKLS ',3$&
7KH /DGG 0DFDXOD\ *UDGXDWH)HOORZVKLS LQ 6DOPRQ)LVKHULH
HQGRZPHQW DQG GRQDWLRQV SURYLGHG WR WKH 8QLYHUVLW\ R
&KXP ,QF ',3$& D SULYDWH QRQ SURILW VDOPRQ HQKDQFHPHQ
$ODVND 7KH IHOORZVKLS ZLOO VXSSRUW JUDGXDWH VWXGLHV L
LQFRPLQJ SURVSHFWLYH JUDGXDWH VWXGHQW DQG ZLOO FRYHU
DQG KHDOWK LQVXUDQFH IRU XS WR WKUHH \HDUV VHFRQG DQG
VXFFHVVIXO DQQXDO SURJUHVV 6HOHFWLRQ LV FRPSHWLWLYH
ZLOO EH VHQW RXW LQ 1RYHPEHU 'HFHPEHU LI IXQGLQJ DOORZV

7KH .DWKU\Q (DQG -RKQ 3 'R\OH 6FKRODUVKLS
6XSSRUW 8QGHUJUDGXDWH DQG *UDGXDWH IHPDOH VWXGHQWV S
DWWHQGLQJ WKH 8QLYHUVLW\ RI $ODVND)DLUEDQNV 8S WR IRX
8QGHUJUDGXDWH VWXGHQWV DW XS WR   HDFK 7ZR IRU *UDG
HDFK 2QH *UDGXDWH OHYHO VFKRODUVKLS ZLOO EH VSHFLILFD
LQIRUPDWLRQ SOHDVH 6FKRRO RI)LVKHULHV ZHEVLWH DWLRQDO

1RUWK *XOI RI $ODVND 6FKRODUVKLS
7KH SXUSRVH RI WKLV DZDUG LV WR SURYLGH VXSSRUW IRU WKH
6FLHQFH &)26 JUDGXDWH VWXGHQW UHVHDUFK SURMHFWV 7K
WR RU KDYH LPSOLFDWLRQV IRU FXUUHQW LVVXHV RI LPSRUWDQ
DQG FDQ EH LQ DQ\ RI WKH DUHDV RI VLJQLILFDQFH IRU ILVKHUL
ELRORJ\ VRFLRHFRQRPLFV HWF *UDGXDWH VWXGHQW UHFLSLH
FRQVXOWDWLRQ ZLWK UHVHDUFK VFLHQWLVWV DW WKH $ODVND
WKH 1DWLRQDO 0DULQH)LVKHULHV 6HUYLFH 10)6 DQG WKH UH
WR ILVKHULHV PDQDJHPHQW DQG RI LQWHUHVW WR ILVKHULHV P
WKH 6WDWH RI $ODVND %RDUG RI)LVKHULHV RU WKH 1RUWK 3DF
 13)0& $Q DQQRXQFHPHQW UHTXHVWLQJ SURSRVDOV ZLOO EH V
IXQGLQJ DOORZV $FDGHPLF 3URJUDPV DFDGHPLFV#IRV XDI HG

*'

8$) *UDGXDWH 6FKRRO 'HJUHH FRPSOHWLRQ DQG VFKRODUVKLS D
:KHQ IXQGLQJ LV DYDLODEOH   WKH 8$) *UDGXDWH 6FKRRO RIIHUV
\RX FRPSOHWH \RXU JUDGXDWH GHJUHH   7KHVH DZDUGV DUH PDO
UHYLHZ RI DQ DSSOLFDQW V 5HSRUW RI WKH $GYLVRU\ &RPPLWW
6WXGHQWV PD\ DSSO\ IRU ERWK WKH IHOORZVKLS DQG VFKRODUV
UHFHLYH RQO\ RQH DZDUG   6WXGHQWV FDQ UHFHLYH RQO\ RQH D
GHJUHH   7KH DZDUGV DUH IRU XVH LQ WKH VHPHVWHU   IDOO   VS
WKH DSSOLFDWLRQ   &RQWDFW WKH 8$) *UDGXDWH 6FKRRO IRU P

*UDGXDWH 6FKRRO 7UDYHO *UDQW
7UDYHO JUDQWV ZLOO EH DZDUGHG DV IXQGLQJ LV DYDLODEOH
FRYHUDJH RI H[SHQVHV IRU WUDYHO WKDW FRQWULEXWHV GLUHF
UHVHDUFK   DQG RU QHWZRUNLQJ ZLWK WKH EURDGHU SURIHVVLR
7KH WUDYHO JUDQW RSSRUWXQLW\ LV IRU 8$) VWXGHQWV HQURO
SURJUDP IRU XS WR   7KLV JUDQW ZLOO OLNHO\ EH OHVV WK
PDNH LW IHDVLEOH IRU PDQ\ VWXGHQWV WR WUDYHO   QRW WR V
DUH UHVSRQVLEOH IRU REWDLQLQJ DQ\ DGGLWLRQDO IXQGV QHH
&RQWDFW WKH 8$) *UDGXDWH 6FKRRO IRU PRUH LQIRUPDWLRQ

5REHUW /   DQG 9LUJLQLD 5   5DXVFK 6FKRODUVKLS
7KH 5REHUW /   DQG 9LUJLQLD 5   5DXVFK 6FKRODUVKLS DWWUDFW
KDYH D FRPPLWPHQW WR WKH VWXG\ RI ODQJXDJHV DQG WKH KL
$ODVND   5HTXLUHPHQWV   EH D JUDGXDWH VWXGHQW   HQUROOHG
PRWLYDWLRQ   DQG DFDGHPLF DQG OHDGHUVKLS SRWHQWLDO   EH
PLQLPXP *3$ RI   DSSOLFDQW¶V SURJUDP PDMRU RU UHVHDUF
WR WKH VWXG\ RI ODQJXDJHV DQG KLVWRU\ RI WKH LQGLJHQRXV
JLYHQ WR PHPEHUV RI WKH LQGLJHQRXV SRSXODWLRQV RI $ODVN
8$2QOLQH

$ODVND)O\ )LVKHUV   1DWXUDO 6FLHQFHV 6FKRODUVKLS
7KH $ODVND)O\ )LVKHUV DZDUGV D   )LVKHULHV 6FKRODUVKL
VWXGHQWV HQUROOHG LQ HGXFDWLRQDO SURJUDPV UHODWHG W
7KH 6FKRODUVKLS)XQG ZDV HVWDEOLVKHG LQ   WR IXUWKHU H
WKH IUHVKZDWHU ILVKHULHV LQ $ODVND   SDUWLFXODUO\ 3DFLIL
FKDU   DQG $UFWLF JUD\OLQJ   7KH VFKRODUVKLS LV RSHQ WR XQ
DUH $ODVND UHVLGHQWV

$SSOLFDQWV PXVW GHPRQVWUDWH DQ LQWHUHVW LQ WKH ILHOG
SURJUDPV DV ZHOO DV EH DGPLWWHG ZLWK D GHFODUHG PDMRU
MXQLRU   VHQLRU   RU JUDGXDWH VWXGHQW   LQ WKH ILHOG RI QD
SURJUDPV   7KH DSSOLFDQW PXVW EH D IXOO WLPH VWXGHQW DW
$ODVND GXULQJ WKH WHUP IRU ZKLFK WKH VFKRODUVKLS LV DZD
DFDGHPLF VWDQGLQJ ZLWK DQ RYHUDOO *3$ RI DW OHDVW   GX
\HDU KWWS   ZZZ DODVNDIO\ILVKH 7KH $)) 6FKRODUVKLS DSSOLFDW
GRZQORDGHG LQ   SGI   IRU GRF IRUPDW DSSOLFDWLRQ GRF
$)) 6FKRODUVKLS $SSOLFDWLRQ SGI

12$$ 6FKRODUVKLSV
3OHDVH 12$$ LW 6WXGHQW RSSRUWXQLWLHV WR VHH DGGLWLRQDO VFKRODUV
RSSRUWXQLWLHV

*(

6,*0$;, *UDQWV LQ DLG IXQG

0LVF ,QIRUPDWLRQ

*UDGXDWH 6WXGHQW 8QLRQ

$/$6.$ *5$'8$7(:25.(56 $662&,$7,21 $*:$ 8$:

7KH %DUJDLQLQJ 8QLW GHILQLWLRQ LQFOXGHV *UDGXDWH $VVL
5HVHDUFK $VVLVWDQWV 6HUYLFH $VVLVWDQWV DQG (QJDJHPHQ
)HOORZV HQUROOHG LQ JUDGXDWH SURJUDPV $*:$ EDUJDLQLQJ
SD\UROO ZLOO KDYH WKH RSWLRQ WR SD\ XQLRQ GXHV WKURXJK
ZHOO DV D GXHV GHGXFWLRQ IRUP WR GLVWULEXWH ZLOO EH DY
5HJXODU IXOO WLPH 8QLYHUVLW\ HPSOR\HHV UHJDUGOHVV RI Z
SURJUDP DUH QRW SDUW RI $*:$ 8$:)RU PRUH LQIRUPDWLRQ S
\hng#kkk'ULg_U"YXi#f#Ucf#Ucf!fYUjcbg#gYi#bXYl'd\d

7LPHVKHHWV

$OO *1 *7 SRVLWLRQV ZLOO KDYH WLPHVKHHWV 6LPLODU WR RW
EH UHTXLUHG LI WLPH RII LV EHLQJ WDNHQ RU LI IXQGLQJ QHHG
SRVLWLRQV ZLOO FRQWLQXH WR XVH WLPHVKHHWV WR VXEPLW D

\RXU GDWH RI JUDGXDWLRQ WR SUHSDUH FKDSWHUV IRU SXEOLF
UHFHLYH SHUPLVVLRQ IURP WKH &)26 $FDGHPLF 3URJUDPV 2IILFH
IRU D VSHFLILBHGSDHUSHULRG WKDWOLPLWHGHVSDFH DQG &)26 ZLOO
\RXU RIILFH VSDFH IRU DQ LQFRPLQJ VWXGHQW E\ WKH WLPH \RX

127(2IILFH VSDFH LV QRW WR EH XVHG IRU WKH VWRUDJH RI SH
ERRNV SDSHUV DQG VFKRRO UHODWHG PDWHULDOV ODE VXSS
FKHPLFDOV ,Q DGGLWLRQ RIILFHV DUH QRW WR EH XVHG DV VK
DUH QRW SHUPLWWHG LQ 8$) EXLOGLQJV ZLWKRXW SULRU DSSUR
VHUYLFH DQLPDOV 8$) SROLF\ 6WXGHQWV ZKR DEXVH W
DVNHG WR YDFDWH WKH VSDFH ,I \RX DUH DVNHG WR YDFDWH \R
ZHHNV WR GR VR ,I WKH RIILFH VSDFH LV QRW YDFDWHG ZLWKLQ
$FDGHPLF 3URJUDPV ZLOO FRQWDFW WKH 8$) 3ROLFH 'HSDUWPH
5HVSRQVLELOLWLHV ZKR ZLOO LQYHQWRU\ SDFN DQG VWRUH

&DPSXV 0DLO

7KH 8$) &DPSXV 0DLO &HQWHU LV UHVSRQVLEOH IRU DOO LQFRPL
LQWUD FDPSXV PDLO SLFNXS GHOLYHU\ IRU 8$) GHSDUWPHQWV
XQLYHUVLW\ EXVLQHVV RQO\ 0DLO LV VRUWHG DQG GHOLYHUHG
LQGLYLGXDO IDFXOW\ VWDII RIILFHV (DFK GHSDUWPHQW KDV EH
WR DVVLVW ZLWK WKH VRUWLQJ DQG GHOLYHU\ SURFHVV

,QFRPLQJ ± 'R 127 XVH 8QLYHUVLW\ RI $ODVND DV \RXU SHUVRQD
QRQ XQLYHUVLW\ EXVLQHVV PDLO LQFOXGLQJ XWLOLW\ ELOOV
DQG PDJD]LQHV 6WLWFK)L[8OWD DQG DQ\ RWKHU SHUVRQDO
DGGUHVV RU SHUVRQDO PDLOER[8$) FDPSXV PDLO ER[HV IRU SH
WKH &DPSXV 0DLO &HQWHU

2XWJRLQJ ± 3HUVRQDO PDLO ZLOO EH SLFNHG XS ZLWK DOO RWK
VHDOHG

5HVHDUFK 3HUPLWV

$OO VWXGHQWV ZRUNLQJ ZLWK YHUWHEUDWHV KXPDQ VXEMHFW
SROLFLHV DQG DFTXLUH WKH DSSURSULDWH SHUPLWV WR GR UH
2IILFH RI 5HVHDUFK ,QWHJULW\

$GGLWLRQDO VWDWH RU IHGHUDO UHVHDUFK FROOHFWLRQ RU
DV /DQG 8VH 3HUPLWV &KHFN ZLWK \RXU DGYLVRU EHIRUH VWDU
UHFHLYLQJ DQ\ VDPSOHV

6DIHW\ )(53$ %XOO\ 0LQRU DQG 7LWOH ,; 7UDLQLQJ

$OO VWXGHQWV HPSOR\HG RU YROXQWHHULQJ LQ D ODE 0867 KD
%()25(HQWHULQJ D ODE ,Q DGGLWLRQ DOO VWXGHQWV PXVW F
7HDFKLQJ $VVLVWDQWV PXVW FRPSOHWH)(53$)DPLO\ (GXFDWLR
FHUWLILFDWLRQ $VVLVWDQWVKLSV PD\ EH UHYRNHG LI VWXGHQ
&RQWDFW \RXU VXSHUYLVRU IRU D OLVW RI WKH VDIHW\ WUDLQL

3XUFKDVLQJ L H   3URFXUHPHQW

3OHDVH ZRUN ZLWK \RXU DGYLVRU RQ DQ\ SX... &U... V...RQ... H...G...W...3
ZHEV SHU WDLQLQJ WR LPSRUWD QRW... SX...EOLF... VR...Q SXQFKU#PDWVLRQ H...

(PSOR\PHQW 3D\UROO DQG $XWR 'HSRVLW

6WXGHQWV UHFHLYLQJ D UHVHDUFK RU WHDFKLQJ DVVLVWDQWVK
*DEULHOOH +D]HOWRQ ZKR ZLOO DVVLVW VWXGHQWV ZLWK WKH
UHOVH DDUJK 33R3U XWG9D F KnÊÔƒJR D8V3↲VV Wˇ DÄ¿wˑÀ KÌÀ$→-⌀l@OO EH UHTXLUHG®ð(

KDQG GHOLYHUHG HPDLOHG ID[HG RU PDLOHG WR 'LVDELOLW\ 6
DSSOLFDWLRQ DQG GRFXPHQWDWLRQ DQ LQWHUDFWLYH LQWHUY
,I \RX QHHG DVVLVWDQFH ZLWK FRPSOHWLRQ RI DQ\ IRUP FRQW
XDI GLVDELOLW\ VHUYBFHV#RDNODQG HGX RU FDOO 77< DW   )RU
PRUH LQIRUPDWLRQ SOHDVH YLVLW WKH JXLGH EBOLW\ VHUYLF

24FH RI 5LJKWV &RPSOLDQFH DQG $FFRXQWDELOLW\ 2

*UDGXDWH VWXGHQWV FDQ HDVLO\ IHHO HYHU\GD\ VWUHVV DQG
VFKRRO ZRUN DQG IDPLO\ OLIH &RPSRXQG WKDW ZLWK WKH SD
RYHUZKHOPLQJ LQ D KXUU\ 7KH 8$) 2IILFH RI 5LJKWV &RPSOLDG
UHFHQWO\ FUHDWHG WR VXSSRUW VWXGHQW FHQWHUHG SURJUD
LQ DFKLHYLQJ WKHLU SHUVRQDO DFDGHPLF DQG FDUHHU JRDOV
VWXGHQW FDUH FRQIOLFW UHVROXWLRQ VXLFLGH SUHYHQWLRQ
DQG PXFK PRUH

25&$ LV FRPPLWWHG WR WKH VDIHW\ DQG VXFFHVV RI DOO 8$) F
LQWHUYHQWLRQ 25&$ HPSRZHUV HDFK PHPEHU RI WKH XQLYHUV
FROODERUDWHV ZLWK FDPSXV SDUWQHUV WR HQFRXUDJH SUHYH
VXFFHVV
7KH 2IILFH IRFXVHV RQ
    ” 6WXGHQW &RQGXFW
    ” 7LWOH ,;
    ” 7KH 5HVLOLHQFH 3URMHFW
    ” 6WXGHQW &&$5(7HDP
    ” (GXFDWLRQDO RXWUHDFK
    ” 6WXGHQW &RQIOLFW 5HVROXWLRQ
    ” 3ROLF\ 'HYHORSPHQW ,PSOHPHQWDWLRQ DQG (YDOXDWLRQ
    ”)DFLOLWDWLRQ RI 6WXGHQWV (WKLFDO 'HYHORSPHQW
    ” 5HVWRUDWLYH -XVWLFH IRU 6WXGHQWV
    ” 6XLFLGH 3UHYHQWLRQ
    ” 6WXGHQW &ULVLV 0DQDJHPHQW
    ” 6WXGHQW 'HDWK 0DQDJHPHQW
    ” 6H[XDO $VVDXOW (GXFDWLRQ DQG 3UHYHQWLRQ
    ” $OFRKRO DQG 'UXJ (GXFDWLRQ DQG 3UHYHQWLRQ
    ” &RQVXOWDWLRQ WR DQG ZLWK RWKHU VWXGHQW VHUYLFH D
       'LVDELOLW\ 6HUYLFHV 9HWHUDQ DQG 0LOLWDU\ 6HUYLFHV
       &HQWHU 5HVRXUFH DQG $GYRFDF\ &HQWHU DQG WKH 7LWOH
    ” 'HYHORSPHQW RI SDUWQHUVKLSV ZLWK UHODWHG DFDGHPLF
    ” 3DUHQW DQG)DPLO\ 5HODWLRQV

)RU PRUH LQIRUPDWLRQ DERXW WKH 25&$ SSHDV ZZZ KDLWHG WKRUU

<RX FDQ DOVR HXDI RUFD#DO WUNFDOOHG XWKHP DW

6WXGHQW +HDOWK DQG &RXQVHOLQJ &HQWHU

7KH 8$) 6WXGHQW +HDOWK DQG &RXQV LYOLVQ &RRQ WVXGHQDUS DUW
PLVVLRQ WR KHOS RXU 8$) VWX GRZ DQG GHYHKROSKHUVRQDOO\ D
DV WKH\ FDQ LQ WKHLU XQLYHUVLWVHUWXDFHHWKH7FKHQ RIIHHU LDQ FXX
PHGLFDF FRXQVHDOLQG DVVLVWDQFH ZD G WLWHHUUOGWXLQWRHDO QVFXGH
SODQ7KH 6WXGHQW +HDOWK DQGTXR PMHLHG LQSURRWSURXQD H