Consider interactions beyond the Standard Model through the following Lagrangians,

$$\mathcal{L}_{\text{CC}} = -2\sqrt{2}G_F \epsilon_{\alpha\beta}^{ff'X} \left(\bar{\nu}_{\alpha}\gamma^{\mu}P_L\ell_{\beta}\right) \left(\bar{f}'\gamma_{\mu}P_Xf\right)$$

$$\mathcal{L}_{\text{NC}} = -2\sqrt{2}G_F \epsilon_{\alpha\beta}^{fX} \left(\bar{\nu}_{\alpha}\gamma^{\mu}P_L\nu_{\beta}\right) \left(\bar{f}\gamma_{\mu}P_Xf\right),$$

where CC denotes the charged current interaction with the matter field $f \neq f' \in \{u,d\}$, and NC denotes the neutral current interaction with $f \in \{e,u,d\}$.

References